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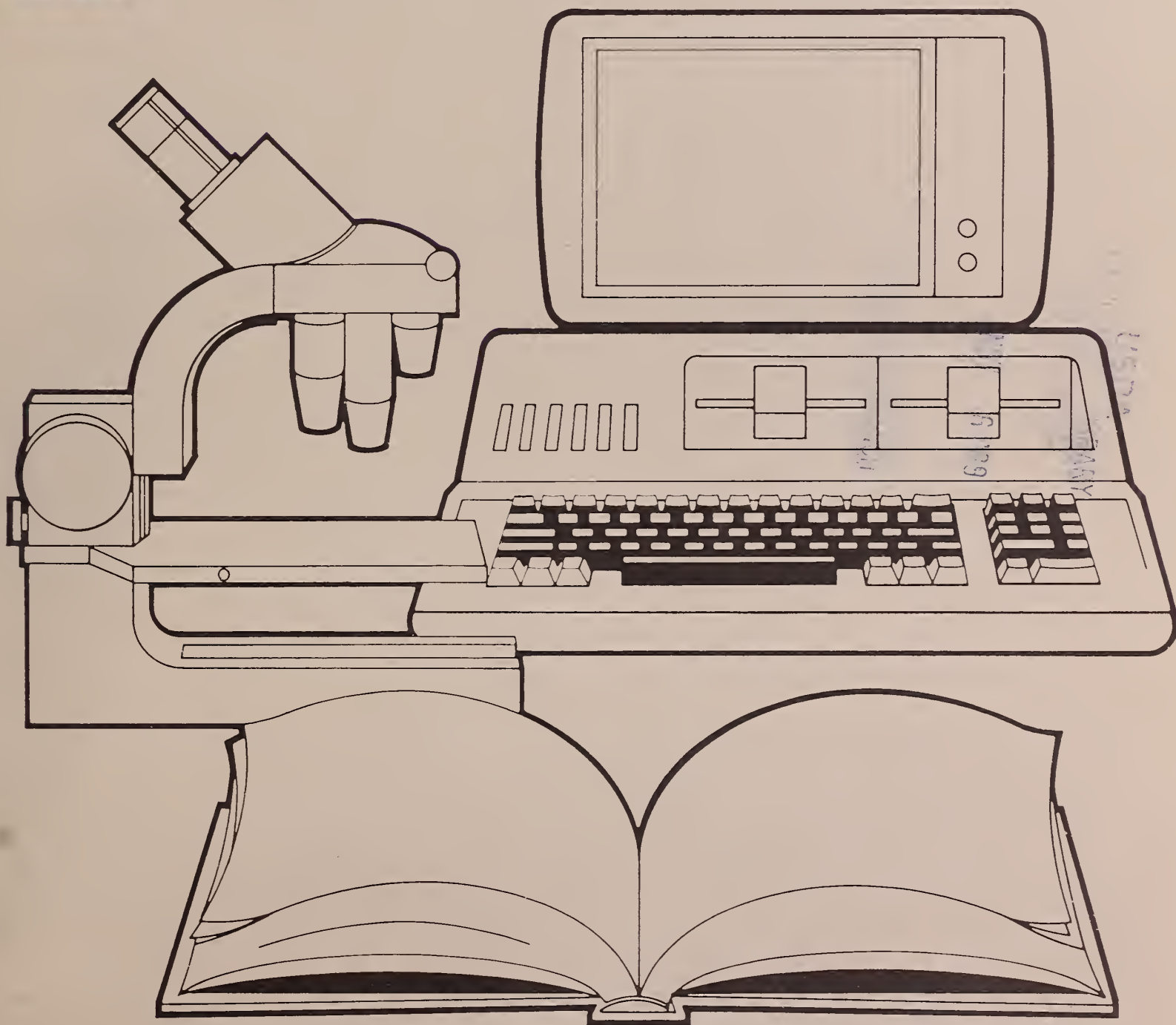
August 1989



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The Protection of Farm Animals, 1979-April 1989

Citations from AGRICOLA
Concerning Diseases and Other
Environmental Considerations



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The Protection of Farm Animals, 1979-April 1989

Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations

Compiled and Edited by
Charles N. Bebee
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Beltsville, MD 20705

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Office of Pesticide Programs
Washington, DC 20460

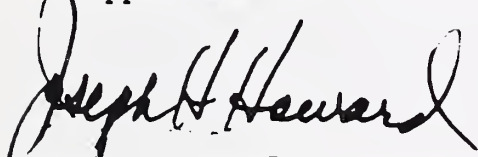
FOREWORD

This is the 27th volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the U.S. Department of Agriculture, National Agricultural Library (USDA-NAL), and the U.S. Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

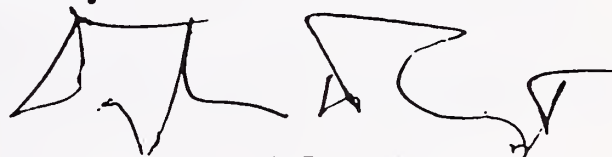
This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from U.S. publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.



JOSEPH H. HOWARD, Director
National Agricultural Library



DOUGLAS D. CAMPT, Director
Office of Pesticide Programs

INTRODUCTION

This bibliography, The Protection of Farm Animals, 1979 - April 1989, covers the species generally considered to be livestock: cattle, sheep, swine, poultry and horses, asses and mules. Subject coverage for these animals includes protection from the effects of diseases, insects, nematodes, weeds, feed toxicity, and all types of agricultural chemicals which may affect the animal's health or which may wind up as residues in livestock products. These include pesticides; growth regulators; residual chemicals from feeds and forage crops; medications absorbed into meat, milk, or eggs; and chemicals whose effect is to pollute air or water utilized by livestock.

This is the 27th bibliography in a series of commodity-oriented listings of citations from AGRICOLA, jointly sponsored by the National Agricultural Library, U.S. Department of Agriculture (USDA-NAL), and the Office of Pesticide Programs, U.S. Environmental Protection Agency (EPA-OPP). Additional volumes issued recently are Plant Growth Regulators for Higher Plants, The Protection of Sugarcane and Sugar Beets, The Protection of Turf Grasses, The Protection of Hays, The Protection of Citrus, The Protection of Leaf Vegetables, The Protection of Root Vegetables, and The Protection of Corn. The 1989 volumes will include The Protection of Cotton, The Protection of Soybeans, The Protection of Wheat, The Protection of Small Fruits and Berries, The Protection of Grapes and Cherries, The Protection of Ornamental Plants, The Protection of Farm Animals, The Protection of Wildlife, and Vertebrate Pest Control.

Entries in the bibliography are subdivided into a series of section headings used in the contents of the Bibliography of Agriculture. Each item appears under every section heading assigned to the cited document. A personal author index is also included in the publication.

Each citation is listed once in each section heading assigned by the cataloger or indexer so that the user will find duplicate entries for many of the citations.

The United States Environmental Protection Agency contact for this project is Richard B. Peacock, Office of Pesticides and Toxic Substances.

Any comments or questions concerning this bibliography may be addressed to the compiler and editor:

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AGRICULTURE

0001

Four top researchers in the limelight.

AGREA. Wigger, R. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Nov/Dec 1987. v. 35 (10). p. 6-7. ill. (NAL Call No.: DNAL 1.98 AG84).

RESEARCH

0002

Clostridium botulinum ionizing radiation D-value determination using a micro food sample system.

Kreiger, R.A. Snyder, D.P.; Pflug, I.J. Chicago : Institute of Food Technologists. Abstract: Classical approaches to irradiation D-value determinations were incorporated into a new miniaturized sample-handling and spore recovery methodology for accurate rapid D-value determinations. Pork, ham, and chicken injected with salt solutions were inoculated with *Clostridium botulinum* spores in sealed, evacuated (250, 125, and 50 mm Hg) polypropylene cryotubes, and were irradiated with gamma radiation (Co-60) at -40 to -20 degrees C in radiation doses up to 1.8 Mrads. The resultant D-values agreed closely with values reported in the literature; the D-value estimates encompassed a standard error of 0.025 Mrad at a significance level of below 0.05. Replicate experiments on different days shed excellent reproducibility. (wz). Journal of food science. Jan/Feb 1983. v. 48 (1). p. 141-145. ill., charts. Includes 31 references. (NAL Call No.: 389.8 F7322).

0003

An extraction procedure may not be feasible for cadmium analysis of tissues, such as horse kidney cortex, having a very high cadmium content.

Elinder, C.G. Lind, B.; Piscator, M.; Sundstedt, K.; Akerberg, S. New York, Springer. Bulletin of environmental contamination and toxicology. Dec 1981. v. 27 (6). p. 810-815. Includes ref. (NAL Call No.: RA1270.P35A1).

0004

Four top researchers in the limelight.

AGREA. Wigen, R. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Nov/Dec 1987. v. 35 (10). p. 6-7. ill. (NAL Call No.: DNAL 1.98 AG84).

0005

Methods for recovery of campylobacter jejuni from foods.

Stern, Norman J. Ames : International Association of Milk, Food, and Environmental Sanitarians. Extract: The triangular relationship between *Campylobacter jejuni* (C. jejuni) foods, and disease in humans has been well-documented. Many studies have revealed that C. jejuni causes at least as many cases of human gastroenteritis as does *Salmonella*. C. jejuni has been found on the carcasses of poultry and other domestic animals throughout the world. The organism is microaerophilic and various methods for establishing appropriate growth conditions are available. Methods developed for use in clinical laboratories lack use in detecting small numbers of C. jejuni in

foods. In 1 enrichment method for detecting C. jejuni in foods, washings are filtered and centrifuged, the sediment is suspended in the enrichment broth, and the suspension is incubated under a constant gas flow at reduced oxygen levels. Following incubation, enrichment broth is filtered and plated onto selective media. In another recently-developed method, food samples are directly added to an enrichment broth with antibiotics and incubated under a microaerobic atmosphere before selective plating. Several selective media use several antibiotics to which C. jejuni is resistant. The plates are supplemented with horse or sheep blood, depending upon the specific formulation. The optimum temperature for growth of C. jejuni (about 42 degrees Centigrade) may also be used for selection. It is now possible to recover 0.1-1 cell of C. jejuni per 10-25 g of food sample from among 1 million to 1 billion indigenous bacteria. After a characteristic colony is isolated, the key criteria for presumptive identification of C. jejuni by phase-contrast microscopy are its darting, corkscrew motion and a comma-to-spiral shape. (author/wz). Journal of food protection. Dec 1982. Presented in part at the 1982 Annual Meeting of the American Society for Microbiology, Atlanta, GA. v. 45 (14). p. 1332-1337, 1341. ill., charts. Includes 54 references. (NAL Call No.: 44.8 J824).

HISTORY

0006

Introduction to safe meat and poultry from farm to table.

Menning, E.L. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 84-85. (NAL Call No.: DNAL SF601.J62).

0007

Milk the fight for purity /James Cross Giblin.

Giblin, James. New York : Crowell, c1986.
Abstract: Milk is the most widely consumed food in the United States today. The author reviews the history of the fight for pure milk. Tracing this history reveals continuing crusades for consumer protection concerning milk. The history of drinking cow's milk; providing milk to the cities' populations; swill-milk dairies (in which dairy cows drink swill- "run-off" from local distilleries- instead of water); adulteration of milk with water, baking soda, and chalk; discovery of milk bottles for delivery; milk associated with diseases (tuberculosis, typhoid fever, cholera, scarlet fever and brucellosis); pasteurization; milk grading; the invention of the Rotolactor to milk cows; the threat of radioactivity in milk; contaminated feed (with polybrominated biphenyl); and testing for antibiotics in milk are discussed in detail. Various sketches and pictures complement the text. Includes index. 106 p. : ill. ; 24 cm. Bibliography: p. 100-102. (NAL Call No.: DNAL jSF257.G5 1986).

EDUCATION AND TRAINING NOT EXTENSION

0008

The clinicians's impact on meat safety.

Leman, A.D. Pullen, M.M. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 97-98. Includes references. (NAL Call No.: DNAL SF601.J62).

0009

A survey to determine the use of the "Task analysis and Curriculum Planning Guide" by colleges and schools of veterinary medicine.

Besch, E.D. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 102-104. Includes 8 references. (NAL Call No.: DNAL SF601.J62).

LEGISLATION

0010

Antibiotics in livestock and poultry feeds (Residue in food, USDA, U.S. Food and Drug Administration, National Advisory Food and Drug Committee).

American Cyanamid Company. Davis, University of California. Proceedings. Western Poultry Disease Conference. 1978. (27th). p. 90-91. (NAL Call No.: SF995.W4).

0011

Bacteria-laden meat: who is to blame?.

Washington, D.C. : Community Nutrition Institute. Abstract: A brief report discusses the responsibilities of the US regulatory meat and poultry inspection system and of retail food stores and consumers for preventing the consumption of meat and poultry contaminated with bacteria. Changes in the inspection system and cost-effective inspection models also are discussed. Six specific recommendations are appended for preventing bacterial contamination in meat and poultry. These include the imposition of severe penalties by USDA for the use of contaminated animal feeds, the establishment of national animal husbandry sanitation standards, improved processing quality methods to prevent cross-contamination, development of a more active national surveillance system for documenting foodborne illness, and consumer education.(wz). Nutrition week. Apr 9, 1987. v. 17 (15). p. 4-5. (NAL Call No.: DNAL TX341.C6).

0012

Cross-protective fowl cholera bacterins (Pasteurella multocida, serologic and immunologic types, preparation requires only one passage of infected tissue through a laboratory medium, sterilization, and recovery for use; citation only).

Rebers, P.A. USDA. Hedderley, K.L. Washington, D.C., The Office. United States patent - United States Patent Office. Jan 23, 1979. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231. Jan 23, 1979. (4,136,169). 4 p. 3 ref. (NAL Call No.: No Call No. (PAT)).

0013

Environmental impacts of large scale hog production facilities.

Shaffer, R. Vander Meulen, J. Chelsea, Mich. : Lewis Publishers, c1987. Rural groundwater contamination / edited by Frank M. D'Itri, Lois G. Wolfson. p. 129-146. ill., maps. Includes references. (NAL Call No.: DNAL TD223.R87).

0014

Federal Meat and Poultry Products Inspection Act of 1983 : hearing before the Committee on Agriculture, Nutrition, and Forestry, United States Senate, Ninety-eighth Congress, first session, on S. 593 ... July 21, 1983. -. United States ~ Congress ~ Senate ~ Committee on Agriculture, Nutrition, and Forestry. Washington, D.C. U.S. G.P.O. 1983. iv, 125 p. ; 24 cm. --. (NAL Call No.: KF26.A35 1983f).

0015

Federal regulation of meat and poultry products--increased consumer protection and efficiencies needed report to the Congress /by the Comptroller General of the United States. United States. ~ General Accounting Office. Washington, D.C. : United States General Accounting Office, 1983. Cover title. ~ "May 4, 1983." ~ "GAO/RCED-83-68." ~ "B-209696" -- Prel. p. vi, 42 p. ; 28 cm. (NAL Call No.: DNAL TS1975.U63).

0016

Food irradiation.

Robbins, C.J. Holmes, A.W. Boston, Mass. : Little, Brown and Company. Abstract: Two letters to the editor concerning a recent editorial take opposing sides concerning the conclusions of the British Medical Association's Board of Science that the ban on food irradiation in the United Kingdom should be lifted. One letter argues that the ban should not be lifted since irradiation of doses of 10 kGy will not sterilize food, and that data on the safety of irradiated foods are insufficient. The other letter argues that the ban should be lifted because it is unlikely that there will be any hazard in irradiated food that was not present prior to irradiation, and the reduction of salmonella by irradiation of chicken is a distinct health protection benefit.(wz). The Lancet. Apr 4, 1987. v. 1 (8536). p. 810. Includes 1 references. (NAL Call No.: DNAL 448.8 L22).

0017

Food laws and regulations.

Aurand, L.W. Woods, A.E.; Wells, M.R. New York, N.Y. : Van Nostrand Reinhold, c1987. Abstract: A brief report outlines and discusses US laws and regulations concerning the safety and quality of food products. Topics include: the historical development of key US federal food laws (Food and Drugs Act of 1906; Food, Drug, and Cosmetic Act of 1938; and its amendments (regarding food and color additives and pesticide residues)); other FDA regulations, guidelines, and action levels (including meat/poultry inspection, food labeling and nutritional quality, good manufacturing practices, and recall guidelines); and the authorities of various other US federal agencies for regulating foods. A special

(LEGISLATION)

section focuses on the definition of and conditions for approval of food additives. A listing of representative food additives approved for US use is appended.(wz). Food composition and analysis / Leonard W. Aurand, A. Edwin Woods, Marion R. Wells. p. 1-18. charts. Includes 8 references. (NAL Call No.: DNAL TX531.A9).

0018

History of the federal meat and poultry inspection program.

Miller, W.R. Ames, Iowa : Iowa State University Press, 1986. Practices in veterinary public health and preventive medicine in the United States / edited by George T. Woods. p. 3-23. Includes references. (NAL Call No.: DNAL SF623.P73 1986).

0019

Horse protection act amendments : hearing before the Subcommittee on Health and the Environment of the Committee on Interstate and Foreign Commerce, House of Representatives, on H.R. 6155 ... S. 811 ... December 17, 1975. -. United States ~ Congress ~ House ~ Committee on Interstate and Foreign Commerce ~ Subcommittee on Health and the Environment. Washington U.S. Govt. Print. Off. 1976. "Serial no. 94-55.". iii, 59 p. ; 24 cm. (NAL Call No.: KF27.I5543 1975a).

0020

The Horse Protection Act and you for horse show managers and exhibitors.

Washington, D.C.? : U.S. Dept. of Agriculture, Animal and Plant Health Inspection Service, Veterinary Services, 1983. Cover title. 10 p. ; 22 cm. (NAL Call No.: DNAL aSF295.H6 1983).

0021

Labels on meat and poultry products.

Washington, D.C., The Department. Agriculture information bulletin - United States Dept. of Agriculture. Apr 1981. Apr 1981. (443). 6 p. ill. (NAL Call No.: 1 AG84AB).

0022

Labels on meat and poultry products.

Washington, D.C., The Department. Agriculture information bulletin - United States Dept. of Agriculture. Feb 1981. Feb 1981. (443). 11 p. ill. 6 ref. (NAL Call No.: 1 AG84AB).

0023

Limiting the environment impact of animal production odors (Feedlots, poultry and dairy industry, state air pollution and nuisance laws).

Kreis, R.D. Oxford, New York, Pergamon Press. Environment international. 1978. v. 1 (5). p. 247-275. ill., maps. Bibliography p. 272-275. (NAL Call No.: TD169.E54).

0024

Listeria microbe deadly, but USDA proposes six-week recall delay.

Washington, D.C. : Community Nutrition Institute. Abstract: A brief report discusses the high health risks to infants, pregnant women, and the elderly from meat and poultry products contaminated with the bacterium *Listeria monocytogenes* and notes the recent action by USDA that it would set a zero tolerance in cooked and ready-to-eat meat and poultry products for *Listeria*. Listeriosis outbreaks, the involvement of the Centers for Disease Control and state health agencies in including *Listeria* in their surveillance systems, and concerns of the public and the meat industry also are discussed. Nutrition week. Aug 20, 1987. v. 17 (33). p. 1-2. (NAL Call No.: DNAL TX341.C6).

0025

A Market basket of food hazards : critical gaps in government protection : a report / by Public Voice for Food and Health Policy.

Washington, D.C. Public Voice for Food and Health Policy 1983. Abstract: Food safety laws and regulations are reviewed. Changes in existing legislation to reduce or eliminate possible health hazards from the supply as it travels from farm to tables are recommended. Topics include; inspections of fish, pesticide residues on fresh produce, chemical residues in meat and poultry products, foodborne *Salmonella*, aflatoxin, food additives, food color, and lead in canned foods. (kbc). 106 p. ; 28 cm. (NAL Call No.: TX563.M37 F&N E-4203).

0026

Meat and poultry inspection report of the Secretary of Agriculture to the Committee on Agriculture, House of Representatives and Committee on Agriculture, Nutrition, and Forestry, U.S. Senate /United States Department of Agriculture, Food Safety and Quality Service.

United States.~Food Safety and Quality Service. Washington, D.C. : The Service, -1980. Title from cover. v. : ill. ; 28 cm. (NAL Call No.: DNAL aTS1975.A1U5).

0027

Meat and poultry inspection report of the Secretary of Agriculture to the U.S. Congress /United States Department of Agriculture, Food Safety and Inspection Service.

United States.~Food Safety and Inspection Service. Washington, D.C. : The Service,. Meat and poultry inspection. Description based on: 1985; title from cover.~ Subtitle varies. v. : ill. ; 28 cm. (NAL Call No.: DNAL aTS1975.A1U5).

0028

Meat and poultry inspection the scientific basis of the nation's program /prepared by the Committee on the Scientific Basis of the Nation's Meat and Poultry Inspection Program, Food and Nutrition Board, Commission on Life Sciences, National Research Council.

National Research Council (U.S.).~Committee on the Scientific Basis of the Nation's Meat and Poultry Inspection Program. Washington, D.C. : National Academy Press, 1985. Abstract: An authoritative report prepared by an expert committee of the National Research Council's Food and Nutrition Board for the meat and poultry industry and its regulators summarizes the current body of knowledge concerning the human health hazards of meat and poultry contaminants as they affect quality and public safety, and the technological status of inspection to ensure product quality and safety for consumers. Topics covered in the 10 sections of this report include: a history of inspection programs and current controversies and concerns; public health hazards due to biological and chemical contamination, and their management; environmental factors associated with meat and poultry production; antemortem and postmortem inspections; inspections during meat and poultry processing; application of the hazard analysis critical control point approach to food safety; recent technological advances in meat and poultry inspection; and evidence needed for quantitative~ health risk assessment for decision making in meat and poultry inspection. An executive summary of the findings and recommendations of the overall study preceeds the body of the report, and information on US production levels of meat and poultry and on USDA quality control regulations is appended. xii, 209 p. ; 28 cm. Includes bibliographies and index. (NAL Call No.: DNAL TS1975.N38).

0029

Meat and poultry products: a consumer guide to content and labeling requirements.

Washington, D.C., The Department. Home and garden bulletin - United States Department of Agriculture. July 1981. July 1981. (236). 23 p. ill. (NAL Call No.: 1 AG84HG).

0030

Meat and poultry safety: United States concerns.

McMillan, C.W. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 86-87. (NAL Call No.: DNAL SF601.J62).

0031

An overview of US Department of Agriculture requirements.

POSCAL. Houston, D.L. Champaign, Ill. : Poultry Science Association. Poultry science. Mar 1985. v. 64 (3). p. 481-484. (NAL Call No.: DNAL 47.8 AM33P).

0032

Poultry inspection (Meat quality, sanitation).

Washington, D.C., The Service. FSQS facts - United States Dept of Agriculture, Food Safety and Quality Service. Feb 1981. Feb 1981. (49). 4 p. (NAL Call No.: aHD9000.9.U5A14).

0033

Poultry producer's drug dilemma (FDA, USDA, food quality control, presence of animal health drugs in food).

Good, R.E. Mount Morris, Ill., Watt Publishing Co. Broiler industry. Jan 1981. v. 44 (1). p. 112, 116, 118. ill. (NAL Call No.: 47.8 N45).

0034

Protection and productivity : the strategy for meat and poultry inspection in the 1980's. -.

(Washington, D.C.?) U.S. Dept. of Agriculture, Food Safety and Inspection Service 1984. "March 1984.". 40 p. ; 28 cm. (NAL Call No.: aHD9410.9.U52U5).

0035

Provide for a research program to examine and enhance agricultural production and food processing systemshearing before the

Subcommittee on Livestock, Dairy, and Poultry of the Committee on Agriculture, House of Representatives, One Hundredth Congress, second session, on H.R. 3735, March 24, 1988.

United States.~Congress.~House.~Committee on Agriculture.~Subcommittee on Livestock, Dairy, and Poultry. Washington, D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1988. Distributed to some depository libraries in microfiche.~

(LEGISLATION)

"Serial no. 100-68." iv, 516 p. : ill. ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF27.A366 1988a).

0036

RAP: USDA's Residue Avoidance Program (Meat and poultry).

Engel, R.E. Chicago, Ill. : National Live Stock and Meat Board. Proceedings - Annual Reciprocal Meat Conference of the American Meat Science Association. 1983. 1983. (36th). p. 147-150. (NAL Call No.: 50.9 R24).

0037

Residues and other FDA concerns.

Crawford, L.M. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 95-96. (NAL Call No.: DNAL SF601.J62).

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Rulemaking process on sore horses enlightening for this farrier.

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McMillan, C.W. Washington, D.C., The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Aug 6/13, 1982. Aug 6/13, 1982. p. 5-15. (NAL Call No.: aS21.A8U51).

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Status of the swine health protection act (Prohibition of feeding garbage to swine).

Schnurrenberger, L.W. Hindsdale, Ill., The Institute. Official proceedings: annual meeting - Livestock Conservation Institute. 1981. Presented at the Annual Meeting of Livestock Conservation Institute, 1981, St Louis, Missouri. 1981. p. 210-211. (NAL Call No.: 280.3409 L75A).

0041

Teat dips: use right or invite Uncle Sam.

DHMG. Annexstad, J. Minnetonka, Minn. : Miller Publishing Co. Dairy herd management. Apr 1988. v. 25 (4). p. 12-13, 16, 18-19. ill. (NAL Call No.: DNAL SF191.D3).

0042

USDA adopts stringent controls for rejected meat and poultry imports (Regulations, food safety).

Washington : The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Apr 8/15, 1983. Apr 8/15, 1983. p. 20-22. (NAL Call No.: aS21.A8U51).

0043

USDA issues final regulations for treating garbage fed to swine (Swine Health Protection Act).

Washington : The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Oct 29/Nov 12, 1982. Oct 29/Nov 12, 1982. p. 32-33. (NAL Call No.: aS21.A8U51).

0044

USDA mounts new drive easing food safety rules.

Washington, D.C. : Community Nutrition Institute. Abstract: A news report discusses the planned strategy of the USDA Food Safety and Inspection Service for deregulating poultry inspection. Under this plan poultry would be defined as marketable or unmarketable instead of safe or unsafe, under a "token" federal presence. A USDA field pilot study to prove the effectiveness of this strategy is discussed. The view is expressed that there are concerns about the reliability of the field, and that the US Congress should address the question of a food safety protocol for reducing poultry food poisoning rates.(wz). Nutrition week. Oct 29, 1987. v. 17 (43). p. 4-5. (NAL Call No.: DNAL TX341.C6).

0045

USDA regulation of residues in meat and poultry products.

JANSAG. Cordle, M.K. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1988. v. 66 (2). p. 413-433. maps. Includes references. (NAL Call No.: DNAL 49 J82).

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The veterinarian's role in state meat and poultry inspection.

Ellis, H.D. Ames, Iowa : Iowa State University Press, 1986. Practices in veterinary public health and preventive medicine in the United States / edited by George T. Woods. p. 25-31. Includes references. (NAL Call No.: DNAL SF623.P73 1986).

0047

Warning labels needed on poultry; NAS report silent on industry role.

Washington, D.C. : Community Nutrition Institute. Abstract: A brief report notes that a US National Academy of Sciences (NAS) committee recommended that warning labels be required on poultry slaughtered and sold in the US to alert consumers to the possible health risk from Salmonella and other bacteria present in more than 33% of poultry in the US food system. It also was urged that the labels describe proper cooking and handling procedures that avoid food poisoning from contaminated poultry. However, the NAS committee could not recommend specific steps for the poultry industry to take to reduce bacterial contamination. The committee recommended that USDA adopt a new technique of risk assessment, but would not support USDA's desire to eliminate federal inspectors that USDA feels are unnecessary since they cannot see bacterial contamination.(wz). Nutrition week. May 14, 1987. v. 17 (20). p. 1-2. (NAL Call No.: DNAL TX341.C6).

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Worldwide horse transport.

Mack, N.T. Fort Washington, Md. : The Animal Air Transportation Association. Proceedings of the ... International Conference of the Animal Air Transportation Association. Mar 18/21, 1985. (11th). p. 14-16. (NAL Call No.: DNAL TL720.7.A5).

ECONOMICS, DEVELOPMENT, RURAL SOCIOLOGY

0049

Aerial census of wild horses in western Utah.
Frei, M.N. Peterson, J.S. Denver, Society of
Range Management. Journal of range management.
Jan 1979. v. 32 (1). p. 8-11. ill., map. 11
ref. (NAL Call No.: 60.18 J82).

ECONOMICS OF AGRIC. PRODUCTION

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Economic aspects of specific pathogen free hog production by Paul A. Andrienas . --.
Andrienas, Paul A. Washington, D.C. : Farm Production Economics Division, Economic Research Division, 1963. iv, 14 p. -. Includes bibliographical references. (NAL Call No.: DNAL Fiche S-82 no.142).

0051

Provide for a research program to examine and enhance agricultural production and food processing systemshearing before the Subcommittee on Livestock, Dairy, and Poultry of the Committee on Agriculture, House of Representatives, One Hundredth Congress, second session, on H.R. 3735, March 24, 1988.
United States.~Congress.~House.~Committee on Agriculture.~Subcommittee on Livestock, Dairy, and Poultry. Washington, D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1988. Distributed to some depository libraries in microfiche.~
"Serial no. 100-68.". iv, 516 p. : ill. ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF27.A366 1988a).

FARM ORGANIZATION AND MANAGEMENT

0052

Cost-benefit evaluation of house fly (Diptera: muscidae) control in caged layer poultry houses.

POSCAL. Quisenberry, S.S. Foster, D.E. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1984. v. 63 (11). p. 2132-2139. ill. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0053

Cost effectiveness of purging cows of heptachlor: a preliminary analysis.

AKFRA. Berry, C.R. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. May/June 1986. v. 35 (3). p. 10. (NAL Call No.: DNAL 100 AR42F).

0054

Economic implications of water pollution abatement in family farm livestock production by Roy N. Van Arsdall and James B. Johnson . --.

Van Arsdall, Roy N., 1924-. Washington, D.C. : U.S. Dept. of Agriculture, Economic Research Service, 1972. vi, 44 p. : ill., maps --. Includes bibliographical references. (NAL Call No.: DNAL Fiche S-82 no.508).

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Guidelines for depopulation and repopulation of swine herds.

McNaughton, C.L. Lawrenceville, N.J. : Veterinary Learning Systems Company. The Compendium on continuing education for the practicing veterinarian. Oct 1988. v. 10 (10). p. 1233-1239. (NAL Call No.: DNAL SF601.C66).

U.S. FOOD AND NUTRITION PROGRAMS

0056

The National Residue Avoidance Program (Meat, milk, eggs, poultry and swine, USA).
Adams, J. St. Paul, Minn. : The Institute.
Official proceedings : annual meeting -
Livestock Conservation Institute. 1983. 1983.
p. 125-131. (NAL Call No.: 280.3409 L75A).

DISTRIBUTION AND MARKETING

0057

Prevalence of *Campylobacter jejuni* on turkey wings at the supermarket level.

Rayes, H.M.JFPRD. Genigeorgis, C.A.; Farver, T.B. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1983. v. 46 (4). p. 292-294. Includes references. (NAL Call No.: 44.8 J824).

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What's in the box. II. Knowing your cargo and protecting him en route (Horses, transportation).

Follmer, D. Gaithersburg, Md., Equine Health Publications Co. Equus. Mar 1979. Mar 1979. (17). p. 52-55. ill. (NAL Call No.: SF277.E6).

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Worldwide horse transport.

Mack, N.T. Fort Washington, Md. : The Animal Air Transportation Association. Proceedings of the ... International Conference of the Animal Air Transportation Association. Mar 18/21, 1985. (11th). p. 14-16. (NAL Call No.: DNAL TL720.7.A5).

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Follmer, D. Gaithersburg, Md., Equine Health Publications Co. Equus. Mar 1979. Mar 1979. (17). p. 52-55. ill. (NAL Call No.: SF277.E6).

GRADING, STANDARDS, LABELLING

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Aflatoxin residues in the tissues of pigs fed a contaminated diet (Aflatoxicosis, carcinogens).
Furtado, R.M. East Lansing, The Station.
Research report. Michigan. Agricultural
Experiment Station. Sept 1979. Sept 1979.
(386). p. 119-121. ill. (NAL Call No.: 284.9
M58).

0061

Aflatoxin residues in the tissues of pigs fed a contaminated diet (Food safety implications).
Furtado, R.M. Pearson, A.M. Washington, D.C.,
American Chemical Society. Journal of
agricultural and food chemistry. Nov/Dec 1979.
v. 27 (6). p. 1351-1354. ill. 22 ref. (NAL Call
No.: 381 J8223).

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Alpha-amylase test as a method for distinguishing unpasteurized egg products from pasteurized products.
Imai, C. Champaign, Ill., Poultry Science
Association. Poultry science. July 1979. v. 58
(4). p. 815-823. ill. 6 ref. (NAL Call No.:
47.8 AM33P).

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An alternative--reduced nitrite plus sorbic acid in cured poultry products? (Clostridium botulinum, food preservation).
Allen, C.E. Sofos, J.N. St. Paul. Miscellaneous
report. Minnesota. Agricultural Experiment
Station. Dec 1978. Dec 1978. (165). p. 1-9.
ill. 6 ref. (NAL Call No.: 100 M66 (1)).

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Antibiotic residues in cull dairy cows (Meat contamination).
Engvall, W.L. Berkeley, Calif. Dairy
notes. California. University, Berkeley.
Cooperative Extension Service. Feb 22, 1979.
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0065

Attachment of bacteria to teats of cows (Relation to slaughter hygiene and meat contamination sampling methods).
Notermans, S. Firstenberg-Eden, R. Ames, Iowa,
International Association of Milk, Food, and
Environmental Sanitarians. Journal of food
protection. Mar 1979. v. 42 (3). p. 228-232.
ill. 20 ref. (NAL Call No.: 44.8 J824).

0066

Attachment of certain bacterial strains to chicken and beef meat.
Firstenberg-Eden, R. Notermans, S. Westport,
Conn., Food & Nutrition Press. Journal of food
safety. 1977/1978 (pub. 1979). v. 1 (3). p.
217-228. ill. 12 ref. (NAL Call No.:
TP373.5.J62).

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Attachment of microorganisms to pork skin and surfaces of beef and lamb carcasses (Contamination, food sampling).
Butler, J.L. Stewart, J.C. Ames, Iowa,
International Association of Milk, Food, and
Environmental Sanitarians. Journal of food
protection. May 1979. v. 42 (5). p. 401-406.
ill. 18 ref. (NAL Call No.: 44.8 J824).

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Bacterial loads on egg washing equipment.
Moats, W.A. Champaign, Ill., Poultry Science
Association. Poultry science. July 1979. v. 58
(4). p. 1086. (NAL Call No.: 47.8 AM33P).

0069

Cadmium and the food chain: the effect of dietary cadmium on tissue composition in chicks and laying hens (Residues in meat and eggs, toxicity).
Leach, R.M. Jr. Wang, K.W.L. Bethesda, American
Institute of Nutrition. Journal of nutrition.
Mar 1979. v. 109 (3). p. 437-443. ill. 24 ref.
(NAL Call No.: 389.8 J82).

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Carcass and meat characteristics of lambs of different breed crosses, weight and sex (Includes palatability, cooking).
Solomon, M.B. Kemp, J.D. Lexington, The
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Experiment Station. May 1979. May 1979. (241).
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Carcass quality changes with the broiler chicken after dietary protein restriction during the growing phase and finishing period compensatory growth.
Moran, E.T. Jr. Champaign, Ill., Poultry
Science Association. Poultry science. Sept
1979. v. 58 (5). p. 1257-1270. ill.
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AM33P).

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Characteristics of bone particles from various poultry meat products.

Froning, G.W. Champaign, Ill., Poultry Science Association. Poultry science. July 1979. v. 58 (4). p. 1001-1003. ill. 4 ref. (NAL Call No.: 47.8 AM33P).

0073

Chlorinated pesticide residues in chicken egg.

Hashemy-Tonkabony, S.E. Mosstofian, B. Champaign, Ill., Poultry Science Association. Poultry science. Nov 1979. v. 58 (6). p. 1432-1434. ill. 13 ref. (NAL Call No.: 47.8 AM33P).

0074

Chlortetracycline and sulfonamide resistance of fecal bacteria in swine receiving medicated feed.

Welch, B. Forsberg, C.W. Ottawa. Canadian journal of microbiology. June 1979. v. 25 (6). p. 789-792. ill. 19 ref. (NAL Call No.: 448.8 C162).

0075

Concurrent determination of residues of the coccidiostats 2-chloro-4-nitrobenzamide (aklomid) and 3,5-dinitro-o-toluamide (zoalene) in poultry meat.

Winchester, R.V. Wellington, Dept. of Scientific and Industrial Research. New Zealand journal of science. Dec 1978. v. 21 (4). p. 553-555. ill. 9 ref. (NAL Call No.: 514 N482).

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Consumers' perception of meat and poultry inspection.

Weimer, Jon. Washington, USDA, National Economic Analysis Division, ESCS. Abstract: A 1974 USDA survey assessed consumer knowledge about food safety and practices. Approximately two-thirds of the respondents thought it unlikely that purchased meat and poultry contained harmful bacteria. Also, homemakers underrated their responsibility for hygienic food preparation and handling. A 1977 survey showed positive effects of educational activities. Seventy percent of the respondents agreed that government-inspected raw meat and poultry could contain bacteria that could cause food poisoning. Difference in wording of the survey questions may have influenced the response. National food review. Dec 1978. Dec 1978. p. 41-42.

0077

Contribution of the Southern Regional Research Center to aflatoxin (*Aspergillus flavus*) methology (Contaminated feed, turkeys, toxicity).

Lee, L.S. New Orleans, Oilseed Processing Clinic. Preprints of papers of the Oilseed Processing Clinic Oilseed Processing Clinic. 1979. 1979. (28th). p. 41-43. (NAL Call No.: aSB298.A105).

0078

The Danish swine slaughter inspection data bank and some epidemiologic applications.

Willeberg, P. Washington, D.C., The Department. Miscellaneous publication. United States. Dept. of Agriculture. Nov 1979. Nov 1979. (1381). p. 133-145. ill. 16 ref. (NAL Call No.: 1 AG84M).

0079

Depletion of brilliant blue F.C.F. and penicillin G in milk from treated cows (Detection of antibiotic residues).

Vilim, A. Larocque, L. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. June 1979. v. 42 (6). p. 491-494. ill. 3 ref. (NAL Call No.: 44.8 J824).

0080

Determination of (the coccidiostat) arprinocid in chicken tissues by gas chromatography-mass spectrometry (Residues).

Tway, P.C. Wood, J.S. Jr. Washington, American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1979. v. 27 (4). p. 753-756. ill. 13 ref. (NAL Call No.: 381 J8223).

0083

Distribution and depletion of radioactivity in hens treated dermally with ¹⁴C (carbon isotope)-labeled permethrin (Residues in meat and eggs).

Hunt, L.M. Gilbert, B.N. Champaign, Ill., Poultry Science Association. Poultry science. Sept 1979. v. 58 (5). p. 1197-1201. ill. 5 ref. (NAL Call No.: 47.8 AM33P).

0084

Distribution of aflatoxins B1 and M1 in contaminated calf and pig livers.

Stoloff, L. Trucksess, M.W. Arlington, Va., The Association. Journal. Association of Official Analytical Chemists. Nov 1979. v. 62 (6). p. 1361-1362. ill. 9 ref. (NAL Call No.: 381 AS7).

0085

Economic impacts of a ban on selected animal drugs.

Burbee, Clark. Washington, USDA, National Economic Analysis Division, ESCS. Abstract: The FDA has proposed restrictions on the use of certain antibacterial drugs in animal feeds. Overuse of penicillin and tetracycline could cause organisms to develop antibiotic resistance, lessening drug effects on human and animal disease. Nitrofurantoin drugs fed to poultry could be carcinogenic. Frequently, dangerous levels of sulfanethazine are found in pork meat. The drug ban could bring higher profits for livestock producers and higher prices for consumers. However, within five years, production and prices would return to their baseline levels. A graph and two tables are provided. National food review. Dec 1978. Dec 1978. p. 42-44. ill., charts.

0086

Editorial: USDA's contract with CFA (Consumers Federation of America): bad decision; bad results (Meat and poultry products labeling, net weight, regulations).

Russo, J.R. Radnor, Pa. Food engineering. Feb 1979. v. 51 (2). p. 7. (NAL Call No.: 389.8 F737).

0087

The effect of oral vaccination with Salmonella typhimurium on experimental salmonellosis in turkeys (Zoonotic diseases).

Santivatr, W. Nivas, S.C. St. Paul. Miscellaneous report Minnesota. Agricultural Experiment Station. Dec 1978. Dec 1978. (165). p. 74-77. 5 ref. (NAL Call No.: 100 M66 (1)).

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Effect of temperature, pH (hydrogen-ion concentration), and detergent on survival of bacteria associated with shell eggs.

Kinner, J.A. Moats, W.A. Champaign, Ill., Poultry Science Association. Poultry science. July 1979. v. 58 (4). p. 1073. (NAL Call No.: 47.8 AM33P).

0089

The effect of washing eggs under commercial conditions on bacterial loads on eggshells.

Moats, W.A. Champaign, Ill., Poultry Science Association. Poultry science. Sept 1979. v. 58 (5). p. 1228-1233. ill. 7 ref. (NAL Call No.: 47.8 AM33P).

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The effects of ammoniated aflatoxin contaminated corn on domestic farm animals.

Keyl, A.C. College Park, Md. Proceedings Maryland Nutrition Conference for Feed Manufacturers, University of Maryland. 1978. 1978. p. 11-18. ill. 4 ref. (NAL Call No.: 389.9 UN342).

0091

Effects of ozone treatment on microflora of poultry meat.

Yang, P.P.W. Chen, T.C. Westport, Conn., Food & Nutrition Press. Journal of food processing and preservation. 1979. v. 3 (2). p. 177-185. ill. Bibliography p. 184-185. (NAL Call No.: TX599.J6).

0092

Effects of sulprofos (organophosphate insecticide) and its sulfoxide and sulfone metabolites on laying hens fed the compounds in the diet (Residues in meat and eggs).

Clark, D.E. Ivie, G.W. Washington, American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1979. v. 27 (1). p. 103-107. ill. 8 ref. (NAL Call No.: 381 J8223).

0093

Efficacy and safety of feed additive usage of antibiotics (Reproductive performance, swine, food residues).

Hays, V.W. Corvallis. Special report Oregon. Agricultural Experiment Station. Dec 1978. Dec 1978. (524). p. 16-31. ill. 9 ref. (NAL Call No.: 100 OR3M).

0094

Elimination of sulfamethazine residues from swine (to prevent illegal residues in the meat).

Samuelson, G. Whipple, D.M. Schaumburg, Ill., American Veterinary Medical Association. Journal. American Veterinary Medical Association. Sept 1, 1979. v. 175 (5). p. 449-452. ill. 13 ref. (NAL Call No.: 41.8 AM3).

0095

Ergot contamination of feedstuffs (Effects on poultry).

Young, J.C. Minneapolis, Miller Publishing. Feedstuffs. Aug 6, 1979. v. 51 (32). p. 23-24, 33. ill. Bibliography p. 33. (NAL Call No.: 286.81 F322).

(GRADING, STANDARDS, LABELLING)

0096

Facial eczema and the palatability of meat from lambs (dosed with sporidesmin).

Kirton, A.H. Campbell, A.G. Wellington, Dept. of Scientific and Industrial Research, Science Information Division. New Zealand journal of agricultural research. Aug 1979. v. 22 (3). p. 399-403. ill. 10 ref. (NAL Call No.: 23 N4892).

0097

Gas chromatography of phenols as acetates: an improved method and its application to methiocarb (in fruit and cereals), pentachlorophenol (in fish), and 5,7-dichloro-8-quinolinol (in chicken meat) at residue levels.

Love, J.L. McGrath, H.J.W. Wellington, Dept. of Scientific and Industrial Research. New Zealand journal of science. Sept 1979. v. 22 (3). p. 249-252. ill. 5 ref. (NAL Call No.: 514 N482).

0098

Haemolytic activity of hemp dust and crude hemp antigen in vitro (Toxicity to man and sheep).

Mehrotra, N.K. Saxena, A.K. Amsterdam, Elsevier/North-Holland. Toxicology letters. Oct 1979. v. 4 (4). p. 307-311. ill. 12 ref. (NAL Call No.: RA1190.T62).

0099

High pressure liquid chromatographic determination of furazolidone in turkey tissue.

Hoener, B.A. Lee, G. Washington. Journal Association of Official Analytical Chemists. Mar 1979. v. 62 (2). p. 257-261. ill. 9 ref. (NAL Call No.: 381 AS7).

0102

Impact of food laws, regulations, and standards on world food supply.

Fayans, Henry B. Chicago, Institute of Food Technologists. Abstract: National and international food laws, regulations, and standards influence marketing and distribution of food between countries and have an impact on the world food supply. Consumer protection is the basis for all food laws, but these laws vary widely among countries. Laws regarding additives, pesticides, packaging, and labeling protect consumers and influence export trade; German and Japanese food laws are described. Health and sanitary regulations vary, and barriers such as the lemon war, the Netherlands turkey regulations, and the Germany beef regulations can affect world trade. International harmonization of standards is desirable, and steps have been taken to develop such standards. Products which have international standards, or for which standards are being elaborated, include milk, milk products, fruit juices, frozen foods, cocoa

products, chocolate, fats and oils, processed fruits and vegetables, and processed meats. Food technology. June 1979. v. 33 (6). p. 76-77.

0103

An improperly labeled container with chloropicrin: a farmer's nightmare.

BECTA6. Selala, M.I. Janssens, J.J.; Jorens, P.G.; Bossaert, L.L.; Beaucourt, L.; Schepens, P.J.C. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Feb 1989. v. 42 (2). p. 202-208. ill. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

0104

Influence of microorganisms on the carbonyl compounds of chicken tissue (Food quality).

Moerck, K.E. Ball, H.R. Jr. Washington, American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1979. v. 27 (4). p. 854-859. ill. 37 ref. (NAL Call No.: 381J8223).

0105

Interview with Dr. Donald Houston. Complete "hands-off" inspection possible (Poultry inspection).

Houston, D.L. Mount Morris, Ill., Watt Publishing Co. Broiler industry. Oct 1979. v. 42 (10). p. 64-67, 76, 78, 80, 84. (NAL Call No.: 47.8 N45).

0106

Lesions of swine (carcasses) lymph nodes as a diagnostic test to determine mycobacterial infection (in slaughter houses by federal meat inspectors caused by Mycobacterium avium-intracellulare).

Brown, J. Neuman, M.A. Washington, American Society for Microbiology. Applied and environmental microbiology. Apr 1979. v. 37 (4). p. 740-743. ill. 12 ref. (NAL Call No.: 448.3 AP5).

0107

List of chemical compounds authorized for use under USDA inspection and grading programs.

United States ~ Dept. of Agriculture ~ Food Safety and Quality Service. Washington USDA 1979. Abstract: Nonfood compounds authorized by Chemistry Division, Science, Food Safety and Quality Service for use in slaughtering and processing plants operating under the USDA Poultry, Meat, Rabbit, Shell Egg Grading and Egg Products Inspection Programs are listed. A nonfood compound is any agent proposed for use in a federally inspected plant but not intended

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as an ingredient of meat, poultry, rabbit or egg product. Procedures for obtaining compound authorization are given. Listed and unlisted compounds need USDA authorization. Denaturants; outdoor pesticides; compounds used in nonprocessing areas, cafeterias, heating systems, or holding pens do not require evaluation. Compounds listed as not applicable for evaluation may not be used in the processing area of a plant. Category code letters designate restrictions for use of each compound. Instructions for use of the list are given. 252 p. --.

0108

Mechanically deboned red meat, poultry, and fish (Food safety and nutrition).
Institute of Food Technologists. Hinsdale, Ill., Davies Publishing Co. Meat processing. May 1979. v. 18 (5). p. 84-86. (NAL Call No.: TS1950.M43).

0109

Metabolism of atrazine (herbicide used in the culture of corn) by the soluble fraction (105000g) from chicken liver homogenates (Residues).
Foster, T.S. Khan, S.U. Washington, American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1979. v. 27 (2). p. 300-302. ill. 10 ref. (NAL Call No.: 381 J8223).

0110

Metabolism of (14C)(carbon isotope) mibolerone in the chicken (Feed additives, residues in food).
Dunn, G.H. Krzeminski, L.F. Gosline, R.E. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July 1979. v. 36 (1). p. 1001-1006. ill. 12 ref. (NAL Call No.: 381 J8223).

0111

Microbiological quality of refrigerated chicken gizzards from different sources as related to their shelf-lives.
Charoenpong, C. Chen, T.C. Champaign, Ill., Poultry Science Association. Poultry science. July 1979. v. 58 (4). p. 824-829. ill. 17 ref. (NAL Call No.: 47.8 AM33P).

0112

Modified method for carbadox in (swine) feeds: collaborative study (Antibiotics).
Goras, J.T. Arlington, Va., The Association. Journal. Association of Official Analytical Chemists. Sept 1979. v. 62 (5). p. 982-984. ill. 2 ref. (NAL Call No.: 381 AS7).

0113

Modified traditional (poultry slaughter) inspection trials.
Heffernan, B. Mount Morris, Ill. Broiler industry. May 1979. v. 42 (5). p. 32, 36, 38. ill. (NAL Call No.: 47.8 N45).

0114

A novel plan for USDA inspection (Meat and poultry production).
Traylor, S. Sea Isle City, N. J. Broiler industry. Mar 1979. v. 42 (3). p. 28-29, 34, 36. ill. (NAL Call No.: 47.8 N45).

0115

Passive immune hemolysis for detection of heat-labile enterotoxin produced by Escherichia coli isolated from different sources (Includes swine and food contamination).
Serafim, M.B. Castro, A.F.P. de. Washington, American Society for Microbiology. Infection and immunity. June 1979. v. 24 (3). p. 606-610. ill. 10 ref. (NAL Call No.: QR1.I57).

0116

Phosphate and heat treatments to control Salmonella and reduce spoilage and rancidity on broiler carcasses.
Thomson, J.E. Bailey, J.S. Champaign, Ill., Poultry Science Association. Poultry science. Jan 1979. v. 58 (1). p. 139-143. ill. 33 ref. (NAL Call No.: 47.8 AM33P).

0117

Polybrominated biphenyl isomer distribution in raw and cooked chicken and chicken broth (Contamination).
Zabik, M.E. Smith, S.K. Champaign, Ill., Poultry Science Association. Poultry science. Nov 1979. v. 58 (6). p. 1435-1438. ill. 8 ref. (NAL Call No.: 47.8 AM33P).

0118

Polychlorodibenzo-p-dioxin and pentachlorophenol residues in milk and blood of cows fed technical pentachlorophenol (Wood preservative, contamination).
Firestone, D. Clower, M. Jr. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1979. v. 27 (6). p. 1171-1177. ill. 30 ref. (NAL Call No.: 381 J8223).

(GRADING, STANDARDS, LABELLING)

0119

Pork carcass and live slaughter swine grade standards.

Christians, C.J. St. Paul. Extension folder Minnesota. University. Agricultural Extension Service. 1978. 1978. (436). 5 p. ill. (NAL Call No.: 275.29 M66EX).

0120

Practical food inspection.

Martin, C R A. London H. K. Lewis 1978. Abstract: The manual for food inspection includes procedures for meat, fish, poultry, and other food inspections. The parts and functions of the animal body as are necessary for proper inspection are discussed. Physiological and pathological abnormalities, infections diseases, parasites, and preservation techniques for meat are reported. Descriptions of and inspection procedures for fish, poultry, game, fruit, vegetables, cereals, canned foods, milk, milk products are given. Legal procedures, food additives and contaminants, quality control, food purity surveillance are also covered. New directives and regulations on increasing commodity groups have resulted in new design and equipment in slaughterhouses, licensing and documentation, and new systems of poultry inspection. 827 p. : ill. (NAL Call No.: TX531.M3 1978 F&N B-2351).

0121

Product quality and consumer preference as affected by alternative methods of handling and packaging chicken.

Gardner, Fred. Nichols, John. (College Station) Texas Agricultural Market Research and Development Center 1971. v, 60 p. : ill. Bibliography: p. 44. (NAL Call No.: TS1968.G3).

0122

Psychrotrophic bacteria in foods: An update.

Kraft, A.A. Rey, C.R. Chicago, Institute of Food Technologists. Abstract: Only a few genera of gram-negative rods cause food spoilage at low temperatures. The effects of low temperatures on microbial populations in poultry and other foods depend on the bacteria's ability to survive cold shock. Freezing produces various changes with different microbial populations predominating at the two stages of freezing. It also selectively modifies the flora that develops after defrosting. A study illustrates the effects of freezing in changing the microbial flora and resulting problems in identification and classification of surviving organisms. Food technology. Jan 1979. v. 33 (1). p. 66-71. ill., charts. 38 ref.

0123

Quality control in small plants--a guide for meat and poultry processors.

Washington, D.C., The Service. Agriculture handbook - United States Department of Agriculture, Food Safety and Inspection Service. June 1981. June 1981. (586). 18 p. ill. (NAL Call No.: 1 AG84AH).

0124

Relation between aflatoxin, hepatitis-B virus, and hepatocellular carcinoma.

Lutwick, Larry I. Boston. Abstract: Aflatoxin may act to suppress cell-mediated immunity rather than as a primary carcinogen in hepatocellular carcinoma. This effect on the immune system allows hepatitis-B virus (H.B.V.) to grow easily in the liver, produce more chronic infection and cirrhosis, and leads to higher incidence of hepatocellular carcinoma. H.B.V. antigens and antibodies are more common in patients with hepatoma. Aflatoxins cause carcinoma of the liver in some animals. Differing abilities to metabolize aflatoxin may account for species susceptibility. In humans, aflatoxin ingestion does not directly affect development of liver cancer. Aflatoxin, in low concentrations, impairs the resistance to Salmonella, Marek's disease virus, coccidia, Pasteurella multocida and Candida albicans. Lancet. Apr 7, 1979. v. 1 (8119). p. 755-757. charts. 34 ref.

0125

Resistance of the swine fever virus in meat preparations.

Leresche, Edmond. (s.l. s.n. 1979?). 38 leaves. Bibliography: leaves 36-37. (NAL Call No.: TRANSL 24394).

0126

Return to the jungle : how the Reagan administration is imperiling the nation's meat and poultry inspection program / by Kathleen Hughes ; foreward (sic) by Ralph Nader. - Hughes, Kathleen. Washington, D.C. Center for Study of Responsive Law c1983. vi, 63 p. ; 28 cm. (NAL Call No.: KF1911.5.Z9H83).

0127

The role of color in lighting for meat and poultry inspection / Belinda L. Collins, James A. Worthey. -

Collins, Belinda L. Worthey, James A. Washington, D.C. U.S. Dept. of Commerce, National Bureau of Standards 1984. "NBSIR 84-2829. ~"PB84-177823. ~"March 1984. ~"Sponsored by the U.S. Department of Agriculture." x, 77 p. : ill. ; 28 cm. Bibliography: p. 75-77. (NAL Call No.: TS1975.C59).

0128

A scanning electron microscope study of bacterial invasion in hen's egg shell.

Tung, M.A. Garland, M.R. Ottawa.

Journal Canadian Institute of Food Science and Technology. Jan 1979. v. 12 (1). p. 16-22. ill. 24 ref. (NAL Call No.: TP368.C3).

0129

Sectioned and formed steaks from forage-fed beef--acceptability of restructured steaks indicates potential market for young bulls finished on forage (Carcasses, sensory qualities).

Huffman, D.L. Cordray, J.C. Auburn, The Station. Highlights of agricultural research. Alabama. Agricultural Experiment Station. Summer 1979. v. 26 (2). p. 9. ill. (NAL Call No.: 100 AL1H).

0130

Sensory characteristics and thiamin content of frozen-stored and unfrozen cured-cooked pork and turkey.

Bowers, J.A. Gardze, C. Champaign, Ill., Poultry Science Association. Poultry science. July 1979. v. 58 (4). p. 830-834. ill. 9 ref. (NAL Call No.: 47.8 AM33P).

0131

Sequential participation of glutathione and sulph-hydryl(s) in reductive dechlorination of 2,4-di-, and 2,4,5-trichloro phenacyl chlorides by soluble fraction (105,000 X g) of chicken liver homogenate (Vinyl phosphate pesticides, adverse effects).

Akhtar, M.H. New York, Marcel Dekker. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. 1979. v. 14 (1). p. 53-71. ill. 13 ref. (NAL Call No.: TD172.J61).

0132

Spoilage association of chicken skin (during storage).

Daud, H.B. McKeekin, T.A. Washington, American Society for Microbiology. Applied and environmental microbiology. Mar 1979. v. 37 (3). p. 399-401. ill. 14 ref. (NAL Call No.: 448.3 AP5).

0133

Staphylococci and their significance in foods.

Minor, Theodore E. Marth, Elmer H. New York Elsevier 1976. Abstract: The subject of staphylococci in foods is very important and merits the attention of everyone concerned with the safety of foods. Information exists on

staphylococci behavior and enterotoxins production in foods. Measures have been devised to control the problem. Staphylococci are a major cause of food-borne disease. Commercial and home foodhandlers need information to ensure control of staphylococci. Background is included to understand more difficult concepts. Discussions of isolation and enumeration methods are included for detection and measurement of enterotoxins in foods. Information on surveillance and control of staphylococcal food-borne intoxications permits an adequate understanding of basic concepts. Behavior of staphylococci in dairy foods, meat, fish, poultry products, cream-filled pastries, and delicatessen foods is explained. 297 p. Includes bibliographies and index. (NAL Call No.: QR115.M5 F&N B-2232).

0134

Statement by C.W. McMillan, Assistant Secretary of Agriculture, U.S. Department of Agriculture before the Senate Committee on Agriculture, Nutrition, and Forestry, Subcommittee on Agricultural Research and General Legislation, August 11, 1982 (Proposed changes in the Federal Meat Inspection Act, Poultry Products Inspection Act and Egg Products Inspection Act).

McMillan, C.W. Washington, D.C., The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Aug 6/13, 1982. Aug 6/13, 1982. p. 5-15. (NAL Call No.: aS21.A8U51).

0135

The sulfa issue (Swine tissue residue rate, public health hazards).

Biehl, L.G. Mount Morris, Ill., Watt. Feed management. Mar 1979. v. 30 (3). p. 28-29. (NAL Call No.: 389.78 EA7).

0136

Swine Day (Pork preservation, contamination, residues, infectious disorders, marketing).

Corvallis. Special report Oregon. Agricultural Experiment Station. Dec 1978. Dec 1978. (524). 51 p. ill. 27 ref. (NAL Call No.: 100 OR3M).

0137

Swine sulfa residues (from use of sulfonamides as feed additives).

Cromwell, G.L. San Francisco, California Farmer. Animal nutrition and health. May 1979. v. 34 (4). p. 6, 16. ill. (NAL Call No.: 389.78 W52).

(GRADING, STANDARDS, LABELLING)

0138

Tapeworms, meat and man: A brief review and update of cysticercosis caused by taenia saginata and taenia solium.

Hird, D.W. Pullen, M.M. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Abstract: Important concepts in detection, control and prevention of cysticercosis caused by tapeworm species are reviewed. *T. saginata* cysticercosis in beef (beef measles) continues to be a concern in developed countries such as the United States, as well as in developing areas such as East Africa where the infection is widespread. The high standards of meat inspection in the United States have not succeeded in eliminating beef cysticercosis which is seen primarily in feedlot cattle originating in the southwestern U.S. *T. solium* cysticercosis in swine (pork measles) is rarely reported in areas such as the U.S., Canada, and most European countries, but is still a definite human health concern in Mexico, some other Latin American nations and parts of Africa and Asia. Public health threats are discussed. *Journal of food protection*. Jan 1979. v. 42 (1). p. 58-64. 63 ref.

0139

The threatened status of growth promotants for livestock and poultry (Feed additives, pesticides, legislative trends).

White-Stevens, R.H. College Park, Md. Proceedings Maryland Nutrition Conference for Feed Manufacturers, University of Maryland. 1978. 1978. p. 87-101. ill. (NAL Call No.: 389.9 UN342).

0140

Tissue residues of steers grazed on wheat pasture treated with Indar systemic fungicide.

Horn, G.W. Horn, F.P. Champaign, Ill., American Society of Animal Science. *Journal of animal science*. Aug 1979. v. 49 (2). p. 318-323. ill. 10 ref. (NAL Call No.: 49 J82).

0141

Toxic and essential elements in bone (of cattle, sheep, swine and chickens)--a review (Environmental pollutants, metal residues, includes contamination of mechanically deboned meat).

Doyle, J.J. Champaign, Ill., American Society of Animal Science. *Journal of animal science*. Aug 1979. v. 49 (2). p. 482-497. ill. Bibliography p. 494-497. (NAL Call No.: 49 J82).

0142

The transfer of the coccidiostat clodipol to lambs by feeding (recycled) chicken waste (Residues in the tissues).

Ryan, J.J. Pilon, J.C. Madison, American Society of Agronomy. *Journal of environmental quality*. July/Sept 1979. v. 8 (3). p. 439-442. ill. 9 ref. (NAL Call No.: QH540.J6).

0143

USDA adopts final rules for listing official establishment numbers (Meat and poultry inspection regulations).

Washington, D.C., The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. July 2/9, 1982. July 2/9, 1982. p. 17-18. (NAL Call No.: aS21.A8U51).

0144

USDA adopts stringent controls for rejected meat and poultry imports (Regulations, food safety).

Washington : The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Apr 8/15, 1983. Apr 8/15, 1983. p. 20-22. (NAL Call No.: aS21.A8U51).

0145

USDA's oversight of state meat and poultry inspection programs could be strengthened : report to the Honorable Thomas F. Eagleton and to the Honorable Lawton Chiles, United States Senate / by the U.S. General Accounting Office.

-. United States ~ General Accounting Office. Washington, D.C. The Office 1983. Cover title ~"GAO/RCED-84-23. ~"October 21, 1983.". vi, 41 p. : ill., map ; 28 cm. (NAL Call No.: HD9410.9.U5U53).

0146

Effects of low temperatures on the count and virulence of salmonellae in slaughtered fowls. BULGARIAN.

Georgiev, L. Zakhariyev, TS. Sofia, Ministerstvo na zemedeliето i khranitelnata promishlenost. *Veterinarno-meditsinski nauki. Veterinary science*. 1978. v. 15 (1). p. 49-56. ill. 30 ref. (NAL Call No.: 41.8 V6468).

0081 0082

Distribution and clearance of pentachloronitrobenzene (soil fungicide) in chickens (Residues, feed contaminants).
Distribution and clearance of pentachloronitrobenzene (soil fungicide) in chickens (Residues, feed contaminants).
Simon, G.S. Simon, G.S. Kuchar, E.J. Kuchar, E.J. New York, Academic Press. New York, Academic Press. Toxicology and applied pharmacology. Toxicology and applied pharmacology. Sept 30, 1979. Sept 30, 1979. v. 50 (3). v. 50 (3). p. 401-406. ill. p. 401-406. ill. 13 ref. 13 ref. (NAL Call No.: 391.8 T662).(NAL Call No.: 391.8 T662).

0100 0101

A high pressure liquid chromatographic method for the quantitation of sub-microgram amounts of zearalenone (F-2) in agricultural products (Contamination, corn, pig starter and corn oil).
A high pressure liquid chromatographic method for the quantitation of sub-microgram amounts of zearalenone (F-2) in agricultural products (Contamination, corn, pig starter and corn oil).
Malaiyandi, M. Malaiyandi, M. Barrette, J.P. Barrette, J.P. New York, Marcel Dekker. New York, Marcel Dekker. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. 1978. v. 13 (4). v. 13 (4). p. 381-400. ill. p. 381-400. ill. (NAL Call No.: TD172.J61).(NAL Call No.: TD172.J61).

0147

Studies on decontamination of hexachlorbenzol (HCB), gamma-hexachlorcyclohexan (gamma-HCH) and dieldrin from poultry meat. GERMAN.
Wegmann, Charlotte, 1948-. Munchen (s.n.) 1977. 135 p. : ill. --. Bibliography: p. 125-135. (NAL Call No.: 41.2 M9222 (1977 No.19)).

0148

Veterinary health inspection of the carcasses of chickens with Marek's disease: RUSSIAN.
Meskhi, M.V. Moskva. Veterinariia: ezheimesiachnyi teoreticheskii i nauchno-prakticheskii zhurnal. May 1978. May 1978. (5). p. 99-101. ill. (NAL Call No.: 41.8 V6426).

CONSUMER ECONOMICS

0149

Bologna.

New York, The Union. Abstract: Though the king of cold cuts, bologna's protein is expensive, and the meat product is high in calories, fat and sodium. Nevertheless, some 800 million pounds of bologna were produced in America last year--3 1/2 lbs. per person. Fifty brands were evaluated, 23 beef, 20 beef and pork, and 7 poultry bolognas. The aspects evaluated were: sensory rating, package weight, cost, calories, sodium, protein, fat, and sensory defects. A three-slice serving of beef or beef and pork bologna averaged 9.6 grams of protein, but that amounts to \$19.75 per pound of protein and is twice the cost of tuna and four times that of peanut butter. Of 300 bologna samples, 75 showed evidence of foreign matter (such as insect particles), and 184 samples were contaminated with mold. A & P beef bologna was top rated and was also one of the cheapest. Consumer reports Consumers Union of United States. Aug 1980. v. 45 (8). p. 470-473. charts. (NAL Call No.: 321.8 C762).

pesticides, and other chemicals are possible health hazards.(lsp). National food review NFR - United States Dept. of Agriculture, Economic Research Service. Spring 1986. (33). p. 21-24. ill., charts. Includes 8 references. (NAL Call No.: DNAL FNC aHD9001.N275).

0150

Dark side of diet change is rise in food poisoning.

Washington, D.C. : Community Nutrition Institute. Abstract: A report presents US consumer consumption trends between 1960-1987 for poultry, beef, and pork, indicating a continual increase in poultry consumption due both to increased consumer interests in reducing animal fat and cholesterol intake and to increased beef and pork prices, and notes that the increase in poultry consumption may represent a greater health risk from food poisoning. It is argued that US consumers today are 60 times more likely to get food poisoning from consuming poultry than they are to obtain a potential health benefit from eating less red meat. The economic health cost of this change also is discussed.(wz). Nutrition week. Apr 30, 1987. v. 17 (18). p. 4-6. ill. (NAL Call No.: DNAL TX341.C6).

0151

Food safety: consumers report their concerns.

Kramer, C.S. Penner, K.P. Washington, D.C. : The Service. Abstract: Determining the food safety concerns of consumers in the 1980's was the goal of a 1983 Kansas State University Survey. When asked to rank food safety hazards according to their severity, consumers chose: environmental contaminants; disease-causing organisms; pesticides; and animal drug or hormone residues. The relatively low ranking of food additives contrasted with previous studies. Red meats, poultry, and dairy products were cited as the food groups of greatest concern. Processing plants were cited as the most likely places to introduce contaminants to food. Consumers are more aware than ever of food safety, and although the majority feels that certain chemicals are important for food production, most fear that additives,

PLANT PRODUCTION – FIELD CROPS

0153

Yield and quality of forages and performance of steers grazing orchardgrass treated with mefluidide (Herbicide).

Allen, V.G.AFGCA. Fontenot, J.P.; McClure, W.H. Lexington : The Council. Proceedings - American Forage and Grassland Council. 1983. Paper presented at the Forage and Grassland Conference on "Use Home Grown Forages for Profit and Conservation", Civic Center, Eau Claire, Wisconsin, Jan 23-26, 1983. 1983. p. 9-13. Includes references. (NAL Call No.: 60.19 J66).

PLANT PRODUCTION - RANGE

0154

Altering the composition of legume-grass pastures with pronamide for an intensive rotational grazing system.

AAREEZ. Heinrichs, A.J. VanKeuren, R.W.; Triplett, G.B.; Conrad, H.R. New York : Springer. Applied agricultural research. 1987. v. 2 (1). p. 10-14. Includes references. (NAL Call No.: DNAL S539.5.A77).

0155

Altering the composition of legume-grass pastures with pronamide (Herbicide, Ladino clover, *Trifolium repens*, orchardgrass, *Dactylis glomerata*, cows grazing).

Heinrichs, A.J. Conrad, H.R.; VanKeuren, R.W.; Triplett, G.B. Lexington, Ky., The Council. Proceedings - American Forage and Grassland Council. 1982. 1982. (15th). p. 37-46. 6 ref. (NAL Call No.: 60.19 J66).

PLANT BREEDING

0156

**Performance of lactating dairy cows fed tall
fescue forage.**

JDSCAE. Strahan, S.R. Hemken, R.W.; Jackson, J.A. Jr.; Buckner, R.C.; Bush, L.P.; Siegel, M.R. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. June 1987. v. 70 (6). p. 1228-1234. Includes references. (NAL Call No.: DNAL 44.8 J822).

PLANT ECOLOGY

0157

Ecology and toxicology of bitterweed (*Hymenoxys odorata*).

Ueckert, D.N. Calhoun, M.C. Boulder : Westview Press, 1988. The Ecology and economic impact of poisonous plants on livestock production / edited by Lynn F. James, Michael H. Ralphs, Darwin B. Nielsen. Paper presented at the "Symposium on Poisonous Plants of the 40th Annual Meeting of the Society for Range Management," February 8-13, 1987, Boise, Idaho.~ Literature review. p. 131-143. Includes references. (NAL Call No.: DNAL SB617.E26).

PLANT PHYSIOLOGY AND BIOCHEMISTRY

0158

Amino acid composition and microbial contamination of *Spirulina maxima*, a blue-green alga, grown on the effluent of different fermented animal wastes (Included swine, poultry and cattle manures, municipal sludge, swine blood slurry).

Wu, J.F. Pond, W.G. New York, Springer.

Bulletin of environmental contamination and toxicology. Aug 1981. v. 27 (2). p. 151-159. 29 ref. (NAL Call No.: RA1270.P35A1).

0159

Toxicity of the *Alternaria* metabolites alternariol, alternariol methyl ether, altenuene, and tenuazonic acid in the chicken embryo assay (Molds).

Griffin, G.F. APMB. Chu, F.S. Washington :

American Society for Microbiology. Applied and environmental microbiology. Dec 1983. v. 46 (6). p. 1420-1422. ill. Includes references. (NAL Call No.: 448.3 AP5).

PESTS OF PLANTS - INSECTS

0160

Controlling sheep insects.

Williams, R.E. Lafayette : The Service.
Publication E - Purdue University, Cooperative
Extension Service. Subseries: Livestock
insects. Jan 1984. (16). 4 p. (NAL Call No.:
DNAL SB844.I6P8).

0161

Inoculation of entomogenous nematodes, Neoaplectana and Heterorhabditis, and their associated bacteria, Xenorhabdus spp., into chicks and mice (Agents for biological control of insect pests, environmental pollution hazard).

Poinar, G.O. Jr. Thomas, G.M.; Presser, S.B.;
Hardy, J.L. College Park, Md., Entomological
Society of America. Environmental entomology.
Feb 1982. v. 11 (1). p. 137-138. Includes 4
ref. (NAL Call No.: QL461.E532).

0162

Studies on decontamination of hexachlorbenzol (HCB), gamma-hexachlorcyclohexan (gamma-HCH) and dieldrin from poultry meat. GERMAN.

Wegmann, Charlotte, 1948-. Munchen (s.n.) 1977.
135 p. : ill. --. Bibliography: p. 125-135.
(NAL Call No.: 41.2 M9222 (1977 No.19)).

PLANT DISEASES – FUNGAL

0163

TDP-1, a toxic component causing tibial dyschondroplasia in broiler chickens, and trichothecenes from *Fusarium roseum* 'Graminearum'.

APMBA. Lee, Y.W. Mirocha, C.J.; Shroeder, D.J.; Walser, M.M. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. July 1985. v. 50 (1). p. 102-107. Includes 22 references. (NAL Call No.: DNAL 448.3 AP5).

PLANT DISEASES - BACTERIAL

0164

Salmonellae (Salmonella typhimurium) recovery following oral and intravenous inoculation of laying hens (Egg contamination).

Baker, R.C. Goff, J.P.; Mulnix, E.J. Champaign, Ill., Poultry Science Association. Poultry science. May 1980. v. 59 (5). p. 1067-1072. 111. 12 ref. (NAL Call No.: 47.8 AM33P).

MISCELLANEOUS PLANT DISORDERS

0165

Effects of zinc on humans, laboratory and farm animals, terrestrial plants, and freshwater aquatic life (Water pollution, phytotoxicity, toxicity).

Taylor, M.C. Demayo, A.; Taylor, K.W. Boca Raton, Fla., CRC Press. CRC critical reviews in environmental control. 1982. v. 12 (2). p. 113-181. Includes 431 ref. (NAL Call No.: QH545.A1C7).

0166

Fluoride pollution in a salt marsh: movement between soil, vegetation, and sheep.

BECTA6. Baars, A.J. Beek, H. van; Spierenburg, T.J.; Graaf, G.J. de; Beeftink, W.G.; Nieuwenhuize, J.; Broom, J.; Pekelder, J.J. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Dec 1987. v. 39 (6). p. 945-952. maps. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.

0167

Fundamentals of food microbiology.

Fields, Marion L. Westport, CT. AVI Pub. Co. 1979. Abstract: Food microbiologists study food and its microflora through a variety of identification, isolation and cultivation techniques. The text's basic principles of microbiology of meats, cereals, milk, poultry and poultry products, fruits, vegetables, fish and seafoods, sugar and sugar products are enhanced by discussions of laboratory procedures and the inclusion of review questions and additional references. Food microbiology also includes studies of factors influencing the growth of spoilage microorganisms (bacteria, yeasts, molds), microbiology of refrigerated and frozen foods, food poisoning and contamination by mycotoxins. A final chapter reviews methods of study and review for food microbiology examinations with sample questions. Career preparations advice and employment opportunities are discussed. 332 p. : ill. ; 24 cm. Includes bibliographies and index. (NAL Call No.: QR115.F5 F&N B-2204).

0168

The house mouse in poultry operations: pest significance and a novel baiting strategy for its control.

PVPCB. Corrigan, R.M. Williams, R.E. Davis, Calif. : University of California. Proceedings ... Vertebrate Pest Conference. June 1986. (12th). p. 120-126. ill. Includes references. (NAL Call No.: DNAL SB950.A1V4).

0169

Mechanically deboned red meat, poultry and fish.

Chicago, Institute of Food Technologists. Abstract: Mechanically deboning meat eliminates some of the need for skilled deboners and aids in recovering more meat from the animal. Demand for deboned meat has developed since the first machine was used on fish in the 1940s. In mechanical deboning, muscle and other edible tissue passes through slotted openings or a screen; bone portion is shunted to one side. The resulting product is paste-like and can be used for variety meats, canned meat specialties, and sausage. Mechanically deboned meat (MDM) has good palatability and shelf life. USDA and FDA have composition regulations on fat content, protein content and quality, and residual calcium content for MDM. USDA has judged the products safe in the areas of bone fragments, pesticide and antibiotic residues, trace elements, and microbial hazards. Protein quality and quantity in products is standardized by regulation. Fears about bone fragments can be allayed by considering the bone as a nutritional plus as calcium supplements. Bone marrow adds nucleic acid that is not detrimental. MDM prevents loss of expensive, nutritious animal protein. Food technology. Mar 1979. v. 33 (3). p. 77-79. 21 ref.

0170

Metabolism of (14C)(carbon isotope) mibolerone in the chicken (Feed additives, residues in food).

Dunn, G.H. Krzeminski, L.F. Gosline, R.E. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July 1979. v. 36 (1). p. 1001-1006. ill. 12 ref. (NAL Call No.: 381 J8223).

0171

Psychrotrophic bacteria in foods: An update.

Kraft, A.A. Rey, C.R. Chicago, Institute of Food Technologists. Abstract: Only a few genera of gram-negative rods cause food spoilage at low temperatures. The effects of low temperatures on microbial populations in poultry and other foods depend on the bacteria's ability to survive cold shock. Freezing produces various changes with different microbial populations predominating at the two stages of freezing. It also selectively modifies the flora that develops after defrosting. A study illustrates the effects of freezing in changing the microbial flora and resulting problems in identification and classification of surviving organisms. Food technology. Jan 1979. v. 33 (1). p. 66-71. ill., charts. 38 ref.

0172

Quality assurance programs for meat and poultry inspection and processing.

Angelotti, Robert. Chicago, Institute of Food Technologists. Abstract: Past and current government and industry practices regarding inspection at slaughter and during further processing operations are reviewed. A plan is laid out by which further processing operations can be continuously under inspection supervision. The affordable plan will result in increased protection against health hazards and economic fraud. In the long term it will benefit industry through reduced production costs. The plan is for industry-wide adoption of quality assurance programs. The Food Safety and Quality Service (FSQS) would monitor the programs. Food technology. Oct 1978. v. 32 (10). p. 48-50.

0173

Rat! (Pests in horse barns, damage to equipment and feed, control).

Smiley, T. Houston, Cordovan Corporation. Horseman. Sept 1980. v. 25 (2). p. 54, 56-57. ill. (NAL Call No.: SF309.H6).

PROTECTION OF PLANT PRODUCTS - INSECTS

0174

Effect of temperature on nematode (*Steinernema feltiae* Nematoda: Steinernematidae) treatment of soil for control of lesser mealworm

(Coleoptera: Tenebrionidae) in turkey houses.

JEENAI. Geden, C.J. Axtell, R.C. College Park, Md. : Entomological Society of America.

Abstract: Infective juveniles of *Steinernema feltiae* (All strain) were applied (10(6) per m²) to the soil floors of two turkey houses with small populations of lesser mealworms, *Alphitobius diaperinus* (Panzer); a third house was left untreated. The overall mean air temperature during the 9 wk after treatment was 26.4 degrees C. Soil bioassays indicated that nematodes were present in treated soil at 3 wk but not at 5, 7, or 9 wk after treatment. Larval or adult beetle population densities in the treated houses did not differ significantly compared with the control house. When nematodes were applied to soil and then assayed for survival after being held in the laboratory at four different temperatures, none survived beyond 2 wk after treatment in soil held at temperatures greater than 24 degrees C. Nematodes were still detected at 9 wk after treatment in soil held at 20 and 24 degrees C. Journal of economic entomology. June 1988. v. 81 (3). p. 800-803. Includes references. (NAL Call No.: DNAL 421 J822).

0175

Feed additives for control of lesser mealworm (Coleoptera: Tenebrionidae) in poultry broiler houses.

JEENAI. Miller, R.W. Redfern, R.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1988. v. 81 (4). p. 1137-1139. Includes references. (NAL Call No.: DNAL 421 J822).

0176

Residual and topical toxicity of various insecticides to the lesser mealworm (Coleoptera: Tenebrionidae) (*Alphitobius diaperinus*, poultry, avian leukosis, stored products pest).

Vaughan, J.A. Turner, E.C. Jr. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 216-220. Includes references. (NAL Call No.: 421 J822).

0177

Stored product mites detection and loss assessment in animal feed.

Wilkin, D.R. Thind, B.B. Manhattan : Kansas State University, 1984. Proceedings of the Third International Working Conference on Stored-Product Entomology : Oct 23-28, 1983, Kansas State Univ., Manhattan, Kansas / spon. Dept. of Entomology and Dept. of Grain Science a. p. 608-620. Includes references. (NAL Call No.: DNAL SB937.I5 1983).

WEEDS

0178

Altering the composition of legume-grass pastures with pronamide for an intensive rotational grazing system.
AAREEZ. Heinrichs, A.J. VanKeuren, R.W.; Triplett, G.B.; Conrad, H.R. New York : Springer. Applied agricultural research. 1987. v. 2 (1). p. 10-14. Includes references. (NAL Call No.: DNAL S539.5.A77).

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0244

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0245

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0251

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0253

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JTEHD6. Farage-Elawar, M. Francis, B.M. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. 1988. v. 23 (2). p. 217-228. Includes references. (NAL Call No.: DNAL RA565.A1J6).

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Ivie, G.W. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Jan 1980. v. 24 (1). p. 40-48. ill. 3 ref. (NAL Call No.: RA1270.P35A1).

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Akhtar, M.H. Foster, T.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1980. v. 28 (4). p. 693-697. ill. 15 ref. (NAL Call No.: 381 J8223).

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Akhtar, M.H. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1982. v. 30 (3). p. 551-554. ill. Includes 19 ref. (NAL Call No.: 381 J8223).

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Cecil, H.C. Miller, R.W.; Corley, C. Champaign, Ill., Poultry Science Association. Poultry science. Sept 1981. v. 60 (9). p. 2017-2027. ill. 14 ref. (NAL Call No.: 47.8 AM33P).

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Albers, P.H. ENVRA. Heinz, G.H. New York : Academic Press. Environmental research. Apr 1983. v. 30 (2). p. 381-388. Includes references. (NAL Call No.: RA565.A1E5).

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Kurtz, D.A. Hutchinson, L. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Sept 1982. v. 43 (9). p. 1672-1674. 14 ref. (NAL Call No.: 41.8 AM3A).

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Reichel, W.L. Kolbe, E.; Stafford, C.J. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. Sept 1981. v. 64 (5). p. 1196-1200. ill. 7 ref. (NAL Call No.: 381 AS7).

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Jortner, B.S. Pope, A.M.; Heavner, J.E. Little Rock : Intox Press. Neurotoxicology. Summer 1983. v. 4 (2). p. 241-245. ill. Includes references. (NAL Call No.: RC321.N437).

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Health and productivity of dairy cows fed polychlorinated biphenyls.

FAATDF. Willett, L.B. Liu, T.T.Y.; Durst, H.I.; Smith, K.L.; Redman, D.R. Duluth, Minn. : Academic Press. Fundamental and applied toxicology. July 1987. v. 9 (1). p. 60-68. Includes references. (NAL Call No.: DNAL RA1190.F8).

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Abdo, K.M. Timmons, P.R.; Graham, D.G.; Abou-Donia, M.B. Akron : Society of Toxicology. Fundamental and applied toxicology. Mar/Apr 1983. v. 3 (2). p. 69-74. ill. Includes references. (NAL Call No.: RA1190.F8).

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Evans, D.L. Jacobsen, K.L.; Miller, D.M. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. May 1984. v. 45 (5). p. 1023-1027. ill. Includes references. (NAL Call No.: 41.8 AM3A).

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Heptachlor contamination of dairy, beef, and swine: the experience in Missouri.

PAMDD. Raisbeck, M.F. Rottinghaus, G.E.; Satalowich, F.T.; Coats, L.; Steevens, B.; Ricketts, R. Madison, Wis. : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. Literature review. 1986. (29th). p. 161-182. Includes references. (NAL Call No.: DNAL SF771.A53A).

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Heptachlor contamination of livestock and poultry /prepared by Arthur L. Craigmill.

Craigmill, Arthur L. Davis, Calif.? : USDA Extension Service Heptachlor Residue Education Task Force?, 198-?. Caption title.~ "A cooperative effort of the members of the USDA Extension Service Heptachlor Residue Education Task Force chaired by Arthur L. Craigmill"--P. 6. 6 leaves : ill. ; 28 cm. (NAL Call No.: DNAL AQP801.P38C72).

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Wagstaff, D.J. McDowell, J.R.; Paulin, H.J. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. May 1980. v. 41 (5). p. 765-768. ill. 23 ref. (NAL Call No.: 41.8 AM3A).

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Carrington, C.D. Brown, H.R.; Abou-Donia, M.B. Roland, Ark. : Intox Press. Neurotoxicology. Summer 1988. v. 9 (2). p. 223-234. ill. Includes references. (NAL Call No.: DNAL RC321.N437).

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POSCAL. Veltmann, J.R. Jr. Linton, S.S. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1205-1207. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Bursian, S.JTEHD. Flaga, C.; Ringer, R. Washington : Hemisphere Publishing. Journal of toxicology and environmental health. July 1982. v. 10 (1). p. 101-109. 2 p. ref. (NAL Call No.: RA565.A1J6).

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Insecticides (Toxicity, horses).

Dehme, F.W. Philadelphia, Pa. : Saunders, c1983. Current therapy in equine medicine / edited by N. Edward Robinson. p. 580-583. Includes references. (NAL Call No.: SF951.C93).

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PCBPB. Vilanova, E. Johnson, M.K.; Vicedo, J.L. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. June 1987. v. 28 (2). p. 224-238. Includes references. (NAL Call No.: DNAL SB951.P49).

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An investigation of the toxicology and residues of rabon in poultry / by Chandrika P.S. Yadava.

Yadava, Chandrika P. S. (Chandrika Prasad S.). 1969. Thesis (Ph.D.)--University of Massachusetts, 1969. Photocopy. Ann Arbor, Mich. : University Microfilms, 1970. 63 leaves : ill. ; 21 cm. Bibliography: leaves 57-63. (NAL Call No.: DISS 69-12,541).

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The joint neurotoxic action of inhaled methyl butyl ketone vapor and dermally applied O-ethyl O-4-nitrophenyl phenylphosphonothioate in hens: potentiating effect.

TXAPA. Abou-Donia, M.B. Lapidula, D.M.; Campbell, G.; Abdo, K.M. New York, N.Y. : Academic Press. Toxicology and applied pharmacology. June 15, 1985. v. 79 (1). p. 69-82. ill. Includes references. (NAL Call No.: DNAL 391.8 T662).

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BECTA. Calabrese, E.J. Geiger, C.P. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Apr 1986. v. 36 (4). p. 506-509. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

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TXAPA. Schwab, B.W. Richardson, R.J. New York, N.Y. : Academic Press. Toxicology and applied pharmacology. Mar 30, 1986. v. 83 (1). p. 1-9. Includes references. (NAL Call No.: DNAL 391.8 T662).

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Measurement by spectrophotometer of blood cholinesterases inactivation following single oral doses of phosphamidon in bubalus bubalis.
VHTOD. Awal, M.A. Malik, J.K.; Sandhu, H.S. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Oct 1988. v. 30 (5). p. 444-446. Includes references. (NAL Call No.: DNAL SF601.A47).

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Metabolic fate of O-4 4-chlorophenylthio phenyl O-ethyl S-propyl phosphorothioate in a lactating cow.
BECTA. Ivie, G.W. Bull, D.L.; Beier, R.C. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Mar 1985. v. 34 (3). p. 309-316. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

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The metabolic fate of synthetic pyrethroid insecticides in mammals (Cows, goats, dogs, guinea-pigs, rabbits, mice).

Hutson, D.H. Chichester, Wiley & Sons. Progress in drug metabolism. 1979. v. 3. p. 215-252. ill. Bibliography p. 250-252. (NAL Call No.: RM301.P7).

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Metabolic fate of the herbicide buthidazole in lactating cows and laying hens (Residue transfer to meat, milk, and eggs).

Atallah, Y.H. Yu, C.C.; Whitacre, D.M. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1980. v. 28 (2). p. 278-286. ill. 2 ref. (NAL Call No.: 381 J8223).

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JAFAU. Akhtar, M.H. Hamilton, R.M.G.; Trenholm, H.L. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1985. v. 33 (4). p. 610-617. ill. Includes references. (NAL Call No.: DNAL 381 J8223).

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Metabolism of atrazine (herbicide used in the culture of corn) by the soluble fraction (105000g) from chicken liver homogenates (Residues).

Foster, T.S. Khan, S.U. Washington, American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1979. v. 27 (2). p. 300-302. ill. 10 ref. (NAL Call No.: 381 J8223).

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Foster, T.S. Khan, S.U.; Akhtar, M.H. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1980. v. 28 (6). p. 1083-1085. 6 ref. (NAL Call No.: 381 J8223).

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Akhtar, M.H. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1984. v. 32 (2). p. 258-262. ill. Includes references. (NAL Call No.: 381 J8223).

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Akhtar, M.H. JAFCA. Washington : American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1983. v. 31 (5). p. 1081-1083. ill. Includes references. (NAL Call No.: 381 J8223).

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Staiger, L.E. Quistad, G.B.; Duddy, S.K.; Schooley, D.A. Washington, American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1982. v. 30 (5). p. 901-906. ill. 1 p. ref. (NAL Call No.: 381

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Quistad, G.B. Staiger, L.E.; Jamieson, G.C.; Schooley, D.A. Washington, American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1982. v. 30 (5). p. 895-901. ill. 1 p. ref. (NAL Call No.: 381 J8223).

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Aschbacher, P.W. JAFCA. Feil, V.J. Washington : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1983. v. 31 (6). p. 1150-1158. ill. Includes references. (NAL Call No.: 381 J8223).

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Bakke, J.E. Price, C.E. New York, Marcel Dekker. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. 1979. v. 14 (3). p. 291-304. ill. 5 ref. (NAL Call No.: TD172.J61).

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Methoxychlor metabolism in chickens (Insecticides, demethylation, ring hydroxylation conjugation with glucuronic acid, dechlorination, dehydrochlorination, and formation of substituted benzophenones).
Davison, K.L. Lamoureux, C.H.; Feil, V.J. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1984. v. 32 (4). p. 900-908. ill. Includes 9 references. (NAL Call No.: 381 J8223).

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Nigg, Herbert Nicholas, 1941-. Ann Arbor, Mich. University Microfilms 1973. Thesis--University of Illinois at Urbana-Champaign, 1972. vi, 87 leaves. Bibliography: leaves 78-86. (NAL Call No.: DISS 73-10,014).

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Ahrens, F.A. Dyer, D.C.; Lloyd, W.E. Washington, D.C., Hemisphere Publishing. Journal of toxicology and environmental health. July 1980. v. 6 (4). p. 835-842. ill. 15 ref. (NAL Call No.: RA565.A1J6).

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Ehrich, M.TXAPA. Gross, W.B. New York : Academic Press. Toxicology and applied pharmacology. Sept 15, 1983. v. 70 (2). p. 249-254. Includes references. (NAL Call No.: 391.8 T662).

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Morphologic alterations in leg muscles of chicks treated with triorthocresyl phosphate in ovo.
TXAPA. Sheets, L. Norton, S. New York, N.Y. : Academic Press. Toxicology and applied pharmacology. June 15, 1985. v. 79 (1). p. 39-46. ill. Includes references. (NAL Call No.: DNAL 391.8 T662).

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Ault, J.A. Spurgeon, T.E. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Mar/Apr 1984. v.

67 (2). p. 284-289. Includes references. (NAL Call No.: 381 AS7).

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Nephrotoxicity of paraquat in the sheep and the associated reduction in paraquat secretion.
Webb, D.B.TXAPA. New York : Academic Press. Toxicology and applied pharmacology. Apr 1983. v. 68 (2). p. 282-289. Includes references. (NAL Call No.: 391.8 T662).

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Neuropathological effects of phenyl saligenin phosphate in chickens.
Jortner, B.S. Ehrich, M. Roland, Ark. : Intox Press. Neurotoxicology. Summer 1987. v. 8 (2). p. 303-314. ill. Includes references. (NAL Call No.: DNAL RC321.N437).

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Neuropathy in the chick from embryonic exposure to organophosphorus compounds.
Norton, S. Sheets, L. Little Rock : Intox Press. Neurotoxicology. Winter 1983. v. 4 (4). p. 137-141. Includes references. (NAL Call No.: RC321.N437).

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Neurotoxicity of diallate and triallate when administered orally or topically to hens.
JPFCD2. Hansen, L.G. Francis, B.M.; Metcalf, R.L.; Reinders, J.H. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1985. v. 20 (1). p. 97-111. Includes 15 references. (NAL Call No.: DNAL TD172.J61).

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"No-effect-level" (on cholinesterase activity) of malathion (O,O'-dimethyl dithiophosphate of diethyl mercaptosuccinate) in Bubalus bubalis (buffalo calves).
Gupta, R.C. Paul, B.S. New York. Bulletin of environmental contamination and toxicology. Dec 1978. v. 20 (6). p. 819-826. ill. 15 ref. (NAL Call No.: RA1270.P35A1).

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Northern fowl mite control (Poultry pests, pesticides).
Price, F.C. Berkeley, Calif., The Extension. California poultry letter - University of California, Cooperative Extension. Mar 1979. Mar 1979. p. 1-3. (NAL Call No.: SF481.C3).

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Organic mercury exposure from fungicide-contaminated eggs (Seed grain treated with a mercurial fungicide and fed to chickens).

Englander, S.J. Atwood, R.G.; Greenwood, M.R.; Clarkson, T.W. Washington, D.C., Heldref Publications. Archives of environmental health. July/Aug 1980. v. 35 (4). p. 224-228. ill. 19 ref. (NAL Call No.: RC963.A1A7).

0397

Organochlorine and organophosphorus residues in fat of bovine and porcine carcasses marketed in Ontario, Canada from 1969 to 1981 (Beef, pork, pesticide contamination).

Frank, R.J.F.R.D. Braun, H.E.; Fleming, G. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1983. v. 46 (10). p. 893-900. Includes references. (NAL Call No.: 44.8 J824).

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JTEHD6. Kahunyo, J.M. Froslic, A.; Maitai, C.K. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. 1988. v. 24 (4). p. 543-550. Includes references. (NAL Call No.: DNAL RA565.A1U6).

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Organochlorine pesticide residues in chicken fat: a survey.

POSCAL. Kahunyo, J.M. Maitai, C.K.; Forslie, A. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1084-1089. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Organophosphate detoxification related to induced hepatic microsomal enzymes of chickens (Malathion, insecticide).

Ehrich, M. Larsen, C.; Arnold, J. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Apr 1984. v. 45 (4). p. 755-758. Includes references. (NAL Call No.: 41.8 AM3A).

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Organophosphate risk assessment: field testing of DEF (defoliant) with the scaleless chicken (S,S-S-tributylphosphorotrithioate).

Wilson, B.W. Cisson, C.M.; Randall, W.R.; Woodrow, J.E.; Seiber, J.N.; Knaak, J.B. New York, Springer Verlag. Bulletin of environmental contamination and toxicology.

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Organophosphate toxicity. 2. Delayed effects (Neurotoxicity in cats, pigs, sheep, and cattle).

Miller, E.P.VTYMA. Edwardsville : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. May 1983. v. 78 (5). p. 771, 774. ill. Includes references. (NAL Call No.: 41.8 M69).

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Organophosphate toxicosis in a Brangus heifer.

Kerr, L.A. Hudson, L.M.; Osborn, R.G. Lenexa, Kan. : Veterinary Medicine Publishing Co. Veterinary medicine. July 1987. v. 82 (7). p. 729, 732, 734. Includes references. (NAL Call No.: DNAL 41.8 M69).

0404

Organophosphate toxicosis in beef heifers.

MVPRA. Casteel, S.W. Carson, T.L. Santa Barbara, Calif. : American Veterinary Publications. Modern veterinary practice. Dec 1984. v. 65 (12). p. 945. Includes 3 references. (NAL Call No.: DNAL 41.8 N812).

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Organophosphorus and methylcarbamate teratogens: structural requirements for inducing embryonic abnormalities in chickens and kynurenine formamidase inhibition in mouse liver.

Eto, M. Seifert, J.; Engel, J.L.; Casida, J.E. New York, Academic Press. Toxicology and applied pharmacology. June 15, 1980. v. 54 (1). p. 20-30. ill. Bibliography p. 29-30. (NAL Call No.: 391.8 T662).

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Osmoregulatory function in ducks following ingestion of the organophosphorus insecticide fenthion.

Rattner, B.A.PCBPB. Fleming, W.J.; Murray, H.C. New York : Academic Press. Pesticide biochemistry and physiology. Oct 1983. v. 20 (2). p. 246-255. ill. Includes references. (NAL Call No.: SB951.P49).

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0407

Oxidation of pesticides by purified microsomal FAD-containing monooxygenase from mouse and pig liver.

PCBPB. Smyser, B.P. Sabourin, P.J.; Hodgson, E. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. Dec 1985. v. 24 (3). p. 368-374. Includes references. (NAL Call No.: DNAL SB951.P49).

0408

Pathologic effects of 2,2',4,4',5,5'- and 2,3',4,4',5,5'-hexabromobiphenyl in White Leghorn cockerels (Toxicity).

Dharma, D.N. Sleight, S.D.; Ringer, R.K.; Aust, S.D. Kennett Square, Pa., American Association of Avian Pathologists. Avian diseases. July/Sept 1982. v. 26 (3). p. 542-552. ill. 24 ref. (NAL Call No.: 41.8 AV5).

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Pathophysiological effects of paraquat intoxication in domestic ruminants: low dose studies (Calves, Goats).

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0429

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0430

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Combs, G.F. Jr. JONUA. Peterson, F.J. Bethesda : American Institute of Nutrition. The Journal of nutrition. Mar 1983. v. 113 (3). p. 538-545. Includes references. (NAL Call No.: 389.8 J82).

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0434

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0437

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0438

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0439

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0440

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0442

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0444

Residues of stirofos (Rabon) in eggs of laying hens treated for northern fowl mite control by dipping (*Ornithonyssus sylviarum*).

Ivey, M.C. Devaney, J.A.; Ivie, G.W.; Beerwinkle, K.R. Champaign, Ill., Poultry Science Association. Poultry science. Mar 1982. v. 61 (3). p. 443-446. Includes 17 ref. (NAL Call No.: 47.8 AM33P).

0445

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0446

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Dehme, F.W. Philadelphia, Pa. : Saunders, c1983. Current therapy in equine medicine / edited by N. Edward Robinson. p. 584-587. Includes references. (NAL Call No.: SF951.C93).

0447

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Davidson, K.L. New York. Bulletin of environmental contamination and toxicology. Apr 1979. v. 21 (6). p. 756-759. ill. 6 ref. (NAL Call No.: RA1270.P35A1).

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0449

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0450

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Jortner, B.S. Little Rock : Intox Press. Neurotoxicology. Dec 1982. v. 3 (4). p. 299-310. ill. Includes references. (NAL Call No.: RC321.N437).

0451

Sequential participation of glutathione and sulph-hydryl(s) in reductive dechlorination of 2,4-di-, and 2,4,5-trichloro phenacyl chlorides by soluble fraction (105,000 X g) of chicken liver homogenate (Vinyl phosphate pesticides, adverse effects).

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Sheep insect control guide.

Campbell, J. B. 1975. This publication discusses the insect pests of sheep, and a table on insecticides and their use. Document available from: Dept. of Ag. Communications, U of Nebraska, Lincoln, NE 6801. 3 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: G 74-119).

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0454

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Clark, D.E. Kubena, L.F.; Younger, R.L. Champaign, Ill., Poultry Science Association. Poultry science. June 1982. v. 61 (6). p. 1221-1224. ill. Includes 4 ref. (NAL Call No.: 47.8 AM33P).

0455

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Soliman, S.A. TXAPA. Svendsgaard, D.; Farmer, J.D.; Curley, A.; Durham, W.F. New York : Academic Press. Toxicology and applied pharmacology. July 1983. v. 69 (3). p. 417-431. ill. Includes references. (NAL Call No.: 391.8 T662).

0456

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0457

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BBRCA. Schwab, B.W. Davis, C.S.G.; Miller, P.H.; Richardson, R.U. Orlando, Fla. : Academic Press. Biochemical and biophysical research communications. Oct 15, 1985. v. 132 (1). p. 81-87. Includes references. (NAL Call No.: DNAL 442.8 B5236).

0458

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0459

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JPFCD2. Siddiqui, M.K.J. Rahman, M.F.; Mahboob, M.; Anjum, F.; Mustafa, M. New York, N.Y. : Marcel Dekker. Journal of environmental science and health : Part B : Pesticides, food contaminants, and agricultural wastes. 1988. v. 23 (3). p. 291-299. Includes references. (NAL Call No.: DNAL TD172.U61).

0460

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0461

Spectrophotometric method for the quantitative analysis of carbarosone in turkey feed.
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0462

Structure-activity relationships in the acute and delayed neurotoxicity of methyl- and ethylphosphonothionates.
PCBPB. Metcalf, R.L. Francis, B.M.; Metcalf, R.A.; Farage-Elawar, M.; Hansen, L.G. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. Literature review. Jan 1988. v. 30 (1). p. 46-56. Includes references. (NAL Call No.: DNAL SB951.P49).

0463

Students check pesticide metabolism (DDE in cow livers).

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0464

Studies on cyromazine and diflubenzuron in the sheep blowfly *Lucilia cuprina*: inhibition of vertebrate and bacterial dihydrofolate reductase by cyromazine.

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0465

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Soliman, S.A. El-Sebae, A.E.H.; Curely, A.; Ahmed, N.S. New York, Marcel Dekker. Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes. 1980. v. B15 (2). p. 207-217. 14 ref. (NAL Call No.: TD172.J61).

0466

Swine sulfa residues (from use of sulfonamides as feed additives).

Cromwell, G.L. San Francisco, California Farmer. Animal nutrition and health. May 1979. v. 34 (4). p. 6, 16. ill. (NAL Call No.: 389.78 W52).

0467

Teratogenic and antiteratogenic effects of nicotinamide derivatives in chick embryos (Organophosphate insecticides, niacin).

Uyeki, E.M. Doull, J.; Cheng, C.C.; Misawa, M. Washington, D.C., Hemisphere Publishing. Journal of toxicology and environmental health. May/June 1982. v. 9 (5/6). p. 963-973. 2 p. ref. (NAL Call No.: RA565.A1J6).

0468

Teratogenic effects of cholinergic insecticides in chick embryos. I. Diazinon treatment on acetylcholinesterase and choline acetyltransferase activities.

Misawa, M. Doull, J.; Kitos, P.A.; Uyeki, E.M. New York, Academic Press. Toxicology and applied pharmacology. Jan 1981. v. 57 (1). p. 20-29. ill. 36 ref. (NAL Call No.: 391.8 T662).

0469

Teratogenic effects of cholinergic insecticides in chick embryos. III. Development of cartilage and bone (Organophosphate insecticides, diazinon and dicrotophos).

Misawa, M. JTEHD. Doull, J.; Uyeki, E.M. Washington : Hemisphere Publishing. Journal of toxicology and environmental health. Oct/Nov 1982. v. 10 (4/5). p. 551-563. ill. Includes references. (NAL Call No.: RA565.A1J6).

0470

Teratogenic effects of the fungicide maneb on chick embryos.

EESAD. Maci, R. Arias, E. Duluth, Minn. : Academic Press. Ecotoxicology and environmental safety. Apr 1987. v. 13 (2). p. 169-173. Includes references. (NAL Call No.: DNAL QH545.A1E29).

0471

Testing of the objectivity of quality criteria for carbamide concentrate from the effectiveness of feeding it to nursing lambs.

Pak, V.B. Sharganov, V.N. New York, Allerton Press. Soviet agricultural sciences. 1979. 1979. (7). p. 41-42. (NAL Call No.: S1.S68).

0472

Tetrachlorvinphos (pesticide) metabolism in laying hens.

Akhtar, M.H. Foster, T.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 766-771. ill. 15 ref. (NAL Call No.: 381 J8223).

0473

Tibial dyschondroplasia in growing chickens experimentally intoxicated with tetramethylthiuram disulfide.

Vargas, M.I. POSCAL. Lamas, J.M.; Alvarenga, V. Champaign : Poultry Science Association. Poultry science. July 1983. v. 62 (7). p. 1195-1200. ill. Includes references. (NAL Call No.: 47.8 AM33P).

0474

Tibial dyschondroplasia in Single-Comb White Leghorn chicks fed tetramethylthiuram disulfide (a fungicide).

AVDIA. Veltmann, J.R. Jr. Rowland, G.N.; Linton, S.S. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1985. v. 29 (4). p. 1269-1272. Includes 16 references. (NAL Call No.: DNAL 41.8 AV5).

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0475

Tissue distribution of hexachlorophene in lactating cows.

Kawashima, Y. Miyahara, T.; Kozuka, H.; Ohdaira, C. New York, Springer. Bulletin of environmental contamination and toxicology. Mar 1981. v. 26 (3). p. 424-427. 7 ref. (NAL Call No.: RA1270.P35A1).

0476

Tissue residues and ultrastructural changes induced by DDT in chickens.

Reyes, M. de los. Mora, E.C. Champaign, Ill., Poultry Science Association. Poultry science. Sept 1979. v. 58 (5). p. 1183-1191. ill. 18 ref. (NAL Call No.: 47.8 AM33P).

0477

Tissue residues from feeding pentachloronitrobenzene (Quintozone) to White Leghorn chickens.

Dunn, J.S. Bush, P.B. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Sept 1979. 40 (9). p. 1227-1230. ill. 16 ref. (NAL Call No.: 41.8 AM3A).

0478

Tissue residues of steers grazed on wheat pasture treated with Indar systemic fungicide.

Horn, G.W. Horn, F.P. Champaign, Ill., American Society of Animal Science. Journal of animal science. Aug 1979. v. 49 (2). p. 318-323. ill. 10 ref. (NAL Call No.: 49 J82).

0479

Toxicity and interaction of topical organophosphate insecticide dichlorvoscrotoxyphos and phenothiazine anthelmintic in sheep previously exposed to both drugs.

VHTOD. Mohammad, F.K. St Omer, V.V. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. June 1985. v. 27 (3). p. 181-184. Includes 20 references. (NAL Call No.: DNAL SF601.A47).

0480

Toxicity and residues of encapsulated rabon in poultry / by Syed Salman Wasti. -.

Wasti, Syed Salman, 1944-. 1970. Thesis (Ph.D.)--University of Massachusetts, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. vi, 118 leaves ; 21 cm. Bibliography: leaves 108-118. (NAL Call No.: DISS 71-2,730).

0481

Toxicity of indigenous plants and agricultural chemicals (chlorinated insecticides) in farm animals.

Adam, S.E.I. New York, Marcel Dekker. Clinical toxicology. 1978. v. 13 (2). p. 269-280. ill. 73 ref. (NAL Call No.: RA1190.C5).

0482

Toxicity of organophosphorus esters to laying hens after oral and dermal administration.

JPFCD2. Francis, B.M. Metcalf, R.L.; Hansen, L.G. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1985. v. 20 (1). p. 73-95. Includes references. (NAL Call No.: DNAL TD172.J61).

0483

Toxicological screening for organophosphorus-induced delayed neurotoxicity: complications in toxicity testing.

Cherniack, M.G. Roland, Ark. : Intox Press. Neurotoxicology. Summer 1988. v. 9 (2). p. 249-272. Includes references. (NAL Call No.: DNAL RC321.N437).

0484

Toxicology of triclopyr herbicide in the equine (Horses).

Osweiler, G.D. Madison, Wis. : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. 1983. 1983. (26th). p. 193-201. Includes references. (NAL Call No.: SF771.A53A).

0485

Toxicosis in newborn pigs associated with cutaneous application of an aerosol spray containing chlorpyrifos.

JAVMA. Scheidt, A.B. Long, G.G.; Knox, K.; Hubbard, S.E. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Dec 1, 1987. v. 191 (11). p. 1410-1412. Includes references. (NAL Call No.: DNAL 41.8 AM3).

0486

Toxicosis of Mirex for chick embryos and chickens hatched from eggs inoculated with Mirex.

Abuelgasim, A. Ringer, R.; Sanger, V. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Jan/Mar 1982. v. 26 (1). p. 34-39. Includes 15 ref. (NAL Call No.: 41.8 AV5).

0487

The transition from hen house to laboratory cage: problems and pitfalls (Use of hens in toxicological studies).

Gross, W.B. Little Rock : Intox Press. Neurotoxicology. Dec 1982. v. 3 (4). p. 295-298. Includes references. (NAL Call No.: RC321.N437).

0488

Treatment of chronic chlorpyrifos poisoning in a Limousin bull.

BDVPB. Putnam, M.R. Edwards, W.C. Stillwater : American Association of Bovine Practitioners. The Bovine practitioner. Nov 1984. (19). p. 204-207. ill. Includes 2 references. (NAL Call No.: DNAL SF779.5.A1B6).

0489

Trichlorfon-induced congenital cerebellar hypoplasia in neonatal pigs.

JAVMA. Pope, A.M. Heavner, J.E.; Guarnieri, J.A. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Oct 1, 1986. v. 189 (7). p. 781-783. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3).

0490

Types of adrenocorticoids and their effect on organophosphorus-induced delayed neuropathy in chickens.

TXAPA. Ehrich, M. Jortner, B.S.; Gross, W.B. Duluth, Minn. : Academic Press. Toxicology and applied pharmacology. Feb 1988. v. 92 (2). p. 214-223. ill. Includes references. (NAL Call No.: DNAL 391.8 T662).

0491

U.S. beginning to act on banned pesticides (Water buffaloes, poisoned occasionally by pesticide overuse).

Smith, R.J. Washington, American Association for the Advancement of Science. Science. June 29, 1979. v. 204 (4400). p. 1391-1394. ill. (NAL Call No.: 470 SCI2).

0492

An unusual occurrence of toxaphene poisoning in swine.

Mount, M.E. Traffas, V.; Milleret, R.J.; Oehme, F.W. Schaumburg, Ill., The Association. Journal of the American Veterinary Medical Association. Sept 1, 1980. v. 177 (5). p. 445-447. 19 ref. (NAL Call No.: 41.8 AM3).

0493

Uptake, clearance, and metabolism of parathion by perfused whole pig livers.

Baker, S.R. McGilliard, A.D. New York, Academic Press. Pesticide biochemistry and physiology. July 1979. v. 11 (1/3). p. 20-32. ill. 47 ref. (NAL Call No.: SB951.P49).

0494

Uptake, distribution and elimination of monosodium methanearsonate following long term oral administration of the herbicide to sheep and goats.

JPFCD2. Shariatpanahi, M. Anderson, A.C. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1984. v. 19 (6). p. 555-564. ill. Includes references. (NAL Call No.: DNAL TD172.J61).

0495

Uptake of DDT from the yolk sac into the early chick embryo as measured gas chromatography.

Swartz, W.J. Schutzmann, R.L. New York, Springer. Bulletin of environmental contamination and toxicology. Sept 1981. v. 27 (3). p. 393-396. Bibliography p. 396. (NAL Call No.: RA1270.P35A1).

0496

Use of a bioactivation system to screen for hemolytic response to environmental agents: evaluation of six pesticides.

JESED. Horton, H.M. Calabrese, E.J. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part A. Environmental science and engineering. 1986. v. 21 (3). p. 215-233. Includes 16 references. (NAL Call No.: DNAL TD172.J6).

0497

The use of permethrin to control an outbreak of hen fleas (Ceratophyllus gallinae).

Titchener, R.N. PDSA. Champaign : Poultry Science Association. Poultry science. Apr 1983. v. 62 (4). p. 608-611. Includes references. (NAL Call No.: 47.8 AM33P).

0498

The use of warfarin for the treatment of navicular disease (Horses).

Turner, A.S. Harvard, Mass., Laux Company. American farriers' journal. Sept 1981. v. 7 (4). p. 188-190. ill. (NAL Call No.: SF907.A5).

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0499

Vacor poisoning (Rodenticides, horses).
Edwards, W.C. Santa Barbara, Calif. : American Veterinary Publications, 1982. Equine medicine and surgery, 3rd ed. / edited by R.A. Mansmann, E.S. McAllister ; P.W. Pratt, book editor. p. 196-197. 3 ref. (NAL Call No.: SF951.E6 1982).

0500

Warfarin: effects of intravenous loading doses and vitamin K on warfarin anticoagulation in the pony.
Scott, E.A. Sandler, G.A. Chicago, American Veterinary Medical Association. American journal of veterinary research. Dec 1978. v. 39 (12). p. 1888-1891. ill. 11 ref. (NAL Call No.: 41.8 AM3A).

0501

Warfarin; effects on anticoagulant, hematologic, and blood enzyme values in normal ponies.
Scott, E.A. Sandler, G.A. Chicago, American Veterinary Medical Association. American journal of veterinary research. Jan 1979. v. 40 (1). p. 142-146. ill. 40 ref. (NAL Call No.: 41.8 AM3A).

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Warfarin pharmacokinetics in the horse (Rodenticides).
Thijssen, H.H.W. AUVRA. Bogaard, A.E.J.M van den; Wetzel, J.M.; Maes, J.H.J. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. July 1983. v. 44 (7). p. 1192-1196. ill. Includes references. (NAL Call No.: 41.8 AM3A).

0503

Warfarin poisoning with complications in a heifer.
Fox, F.H. VTYMA. Rabhun, W.C. Edwardsville : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Oct 1983. v. 78 (10). p. 1611-1613. ill. Includes references. (NAL Call No.: 41.8 M69).

0504

1,2,3,4,5,6-hexachlorocyclohexane (HCH) (pesticide) residues in tissues of sheep.
Seth, T.D. Kaphalia, B.S. Manhattan, Kan., American College of Veterinary Toxicologists. Veterinary and human toxicology. Aug 1981. v. 23 (4). p. 247-248. 13 ref. (NAL Call No.: SF601.A47).

0505

1984 insect pest management guide: Livestock and livestock barns.
Urbana, Ill. : Cooperative Extension Service, University of Illinois at Urbana-Champaign. Veterinary professional topics : cattle. 1983. v. 9 (4). p. 8-11. (NAL Call No.: DNAL SF961.V42).

0506

2,4,5-trichlorophenoxyacetic acid (herbicide) causes behavioral effects in chickens at environmentally relevant doses.
Sanderson, C.A. Rogers, L.J. Washington, D.C., American Association for the Advancement of Science. Science. Feb 6, 1981. v. 211 (4482). p. 593-595. ill. 23 ref. (NAL Call No.: 470 SCI2).

0507

The causing of blindness by pyridines, diazines, as-triazine, triazole and their related compounds to baby chicks (Toxicity, herbicides).
Matsubara, H. Obara, Y. Tokyo. Journal Nippon Nogei Kagaku Kai. Mar 1978. v. 52 (3). p. 123-127. ill. 7 ref. (NAL Call No.: 385 AG8).

SOIL SCIENCE

0508

Halogenated hydrocarbon residues in ewes
grazing contaminated soil.

Fries, G.F. Marrow, G.S. Champaign, Ill.,
American Society of Animal Science. Journal of
animal science. 1978. v. 47 (suppl.1). p. 259.
(NAL Call No.: 49 J82).

SOIL BIOLOGY

0509

Residues in the fat of ewes grazing on soil contaminated with halogenated hydrocarbons.
Fries, G.F.JANSA. Marrow, G.S. Champaign :
American Society of Animal Science. Journal of
animal science. Nov 1982. v. 55 (5). p.
1118-1124. 1 p. ref. (NAL Call No.: 49 J82).

SOIL FERTILITY – FERTILIZERS

0510

Cadmium in tissues of swine fed barley grown on municipal sludge-amended soil.

JFSAD. Bache, C.A. Gutenmann, W.H.; Kirtland, D.; Lisk, D.J. Westport, Conn. : Food & Nutrition Press. Journal of food safety. 1987. v. 8 (3). p. 199-204. Includes references. (NAL Call No.: DNAL TP373.5.J62).

0511

Fermenting waste for feed, fertilizer and bedding.

DHMG. Roybal, J. Minneapolis : Miller Publishing Co. Dairy herd management. Apr 1984. v. 21 (4). p. 32, 34, 38, 40. ill. (NAL Call No.: DNAL SF191.D3).

0512

Transfer of sludge-borne cadmium through plants to chickens.

JAFCAU. Hinesly, T.D. Hansen, L.G.; Bray, D.J.; Redborg, K.E. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Mar/April 1985. v. 33 (2). p. 173-180. Includes references. (NAL Call No.: DNAL 381 J8223).

FOREST INJURIES AND PROTECTION

0513

Sheep and deer grazing on lodgepole pine plantations (Study of damage to seedlings). Winward, A.H. OR. Rudeen, D.P. Corvallis, Or., The Station. Special report - Agricultural Experiment Station, Oregon State University. June 1980. June 1980. (586). p. 22-24. (NAL Call No.: 100 OR3M).

ENTOMOLOGY RELATED

0514

Blister beetles (Coleoptera: Meloidae) in Kansas: historical perspective and results of an intensive alfalfa survey.

JEENAI. Blodgett, S.L. Higgins, R.A. College Park, Md. : Entomological Society of America. Economic damage caused by blister beetles (Coleoptera: Meloidae) is not the conventional crop destruction experienced in traditional economic pest management systems. Cantharidin, a toxic compound produced by blister beetles, is responsible for livestock deaths when ingested by susceptible animals in contaminated alfalfa hay. Horses are particularly sensitive to this toxin. Several sources were used to establish the historical scope of blister beetle problems in Kansas. Data from two local museum-maintained insect collections indicate that at least 26 species of *Epicauta* occur in Kansas. Results of a 2-yr field survey for blister beetles in northeastern Kansas alfalfa provided the following information: seven species of *Epicauta* were found, with five species identified as posing significant risk problems because of seasonal occurrence, peak abundance, or behavioral characteristics. Potentially all cuttings of alfalfa can contain blister beetles, and the source of the risks changes in a consistent fashion as the season progresses and the blister beetle species complex shifts. Baseline information obtained from this survey is vital to establish unbiased risk assessments, guide future research, and develop practical blister beetle pest management programs. Journal of economic entomology. Oct 1988. v. 81 (5). p. 1456-1462. Includes references. (NAL Call No.: DNAL 421 J822).

0515

Fate of 2, 3-dihydro-2, 2-dimethyl-7-benzofuranyl-N-methylcarbamate (Furadan) and 2-methyl-2-(methylthio) propionaldehyde-O-(methylcarbamoyl)oxime (Temik) in laying hens / by Billey Weaver Hicks. -.

Hicks, Billy Weaver, 1940-. 1970. Thesis--Texas A&M University. Photocopy of typescript. Ann Arbor: University Microfilms, 1971. xii, 134 leaves. Bibliography: leaves 130-133. (NAL Call No.: DISS 70-22,931).

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0516

Advances in predator control (Western ranges, nonlethal methods of protecting sheep).
Hulet, C.V. AR-W. Gates, N.L.; Woodruff, R.; Rich, J. Clovis, Calif., Agriservices Foundation. Sheep & goat handbook. 1980. v. 1. p. 326-331. ill. 2 ref. (NAL Call No.: SF371.S43).

0517

Antibiotics for growth promotion in swine (Feed additives).
Cromwell, G.L. ANUHA. San Francisco : California Farmer Publishing Company. Animal nutrition and health. Aug 1983. v. 38 (4). p. 18-20, 22, 31. Includes references. (NAL Call No.: 389.78 W52).

0518

Bacterial contamination of hatching eggs and chicks produced by broiler breeders housed in litter-slat and sloping floor management systems / by Thomas Ames Carter. -.
Carter, Thomas Ames, 1938-. 1971. Thesis (Ph.D.)--Pennsylvania State University, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. viii, 83 leaves ; 21 cm. Bibliography: leaves 80-83. (NAL Call No.: DISS 72-13,829).

0519

Broiler condemnations Geographical and seasonal differences and their impact on broiler production / by Conrado M. Gempesaw II and Kris Tina Gulczynski.
Gempesaw, Conrado M. Newark, Del. : Agricultural Experiment Station, University of Delaware, 1987. "August 1987.". 29 p. ; 28 cm. Bibliography: p. 19-20. (NAL Call No.: DNAL 100 D37S (1) no.469).

0520

Care of pastured horses.
Thorson, J. Colorado Springs : The Journal. Western horseman. July 1985. p. 24-26. ill. (NAL Call No.: DNAL 42.8 W522).

0521

Comparison of various nursery pen types and responsiveness to antibiotic additions for weanling swine (Bedded solid floor, partially slotted floor, flat-deck pens).
Mahan, D.C. Corley, J.R. Wooster, The Center. Ohio swine research and industry report. Animal science series - Ohio Agricultural Research and Development Center. 1982. 1982. (82-1). p. 5-10. ill. (NAL Call No.: SF391.052).

0522

Control measures for ammonia in broiler brooding houses.
Hansen, H.J. Fischer, C.M. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1986 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1986. (fiche no. 86-4029). 9 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

0523

Direct comparisons of antibiotics for growing-finishing swine (Feed additives).
Maxwell, C.V. Buchanan, D.S.; Luce, W.G.; McLaren, D.; Vencel, R. Stillwater : The Station. Miscellaneous publication - Agricultural Experiment Station, Oklahoma State University. June 1982. June 1982. (112). p. 235-240. (NAL Call No.: 100 OK4 (3)).

0524

Economic aspects of specific pathogen free hog production by Paul A. Andrienas. -.
Andrienas, Paul A. Washington, D.C. : Farm Production Economics Division, Economic Research Division, 1963. iv, 14 p. -. Includes bibliographical references. (NAL Call No.: DNAL Fiche S-82 no.142).

0525

Economics and operations of pork slaughter plants and markets for Texas hogs / by Donald E. Farris and Gene A. Mathia. -.
Farris, Donald E. Mathia, Gene A. College Station Texas Agricultural Experiment Station 1981. iii, 30 leaves : map ; 28 cm. -. Bibliography: leaf 30. (NAL Call No.: HD1775.T4T4 no.81-3).

0526

Effect of air contaminants on performance and quality of broilers.
Quarles, C.L. Caveny, D.D. Champaign, Ill., Poultry Science Association. Poultry science. May 1979. v. 58 (3). p. 543-548. ill. 28 ref. (NAL Call No.: 47.8 AM33P).

0527

The effect of antibiotics on hatchability of hens' eggs and progeny growth performance.

Bentley, O.G. Hershberger, T.V. Champaign, Ill. : Poultry Science Association. Poultry science. May 1954. v. 33 (3). p. 641-648. Includes references. (NAL Call No.: 47.8 AM33P).

0528

Effect of environmental temperature and feeding regimen on quantity of digestive tract contents of broilers.

POSCAL. May, J.D. Branton, S.L.; Deaton, J.W.; Simmons, J.D. Champaign, Ill. : Poultry Science Association. Poultry science. Jan 1988. v. 67 (1). p. 64-71. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0529

The effects of antibiotic, floor space and type of building on growth rate in growing-finishing swine.

Wilson, R.F. Peterson, R.L.; Stitzlein, G.A.; Irvin, K.M. Wooster : The Center. Ohio swine research and industry report. Animal science series - Ohio Agricultural Research and Development Center. 1983. 1983. (83-1). p. 42-44. (NAL Call No.: SF391.052).

0530

Environmental sanitation and management in disease prevention.

MUCBA. Meyerholz, G.W. Gaskin, J.M. East Lansing, Mich. : The Service. Extension bulletin E - Cooperative Extension Service, Michigan State University. Feb 1987. (1595). 2 p. (NAL Call No.: DNAL 275.29 M58B).

0531

Farrowing conversion to raised crates with sealed pits (Swine waste management).

Muehling, A.J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-4074). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0532

Feed withdrawal and broiler shrink (Carcass contamination).

Leeson, S. Summers, J. San Francisco, California Farmer. Animal nutrition & health. June/July 1981. v. 36 (5). p. 28-35. ill. (NAL Call No.: 389.78 W52).

0533

Guarding dogs protect sheep from predators (Includes breeding, training).

Green, J.S.XAAIA. Woodruff, R.A. Washington : The Department. Agriculture information bulletin - U.S. Dept. of Agriculture. Jan 1983. Jan 1983. (455). 27 p. ill. Includes references. (NAL Call No.: 1 AG84AB).

0534

Hints for trailering your horse (Care and protection to prevent injuries during transit).

Green, E. Taylor, C.E. State College : The Service. Publication - Cooperative Extension Service, Mississippi State University. June 1983. June 1983. (1392). 4 p. ill. (NAL Call No.: 275.29 M68EXT).

0535

Horse protection act amendments : hearing before the Subcommittee on Health and the Environment of the Committee on Interstate and Foreign Commerce, House of Representatives, on H.R. 6155 ... S. 811 ... December 17, 1975. -. United States ~ Congress ~ House ~ Committee on Interstate and Foreign Commerce ~ Subcommittee on Health and the Environment. Washington U.S. Govt. Print. Off. 1976. "Serial no. 94-55.". iii, 59 p. ; 24 cm. (NAL Call No.: KF27.I5543 1975a).

0536

The Horse Protection Act and you for horse show managers and exhibitors.

Washington, D.C.? : U.S. Dept. of Agriculture, Animal and Plant Health Inspection Service, Veterinary Services, 1983. Cover title. 10 p. ; 22 cm. (NAL Call No.: DNAL aSF295.H6 1983).

0537

Impact of cattle grub (Hypoderma spp.) (Diptera: Oestridae) infestations on performance of beef cattle.

JEENAI. Scholl, P.J. Hironaka, R.; Weintraub, J. Lanham, Md. : Entomological Society of America. Forty-five weaned Angus steer calves, Bos taurus, were obtained from a ranch at the interface between a large area (southern Alberta, Canada) with a history of several

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years' treatment with systemic insecticides for cattle grubs, *Hypoderma lineatum* (Villers) and *Hypoderma bovis* (L.), and an area where there had been treatment for only 1 yr. Thus, we expected that these animals would receive different levels of cattle grub infestation pressure and have different numbers of encysted larvae. The steers were not exposed to systemic insecticides; they were evaluated for the effects of the cattle grubs on performance. Peak numbers of cattle grubs that appeared in the backs of these animals ranged from 2 to 39. The influence of level of cattle grub infestation on the performance of these steers during the period when the larvae were migrating to and emerging from the animals' backs did not influence the steers' rate of gain, feed intake, or feed-to-gain ratio. The entire growth period from weaning to slaughter was divided and analyzed as three distinct periods: the period before the cattle grubs appeared in the animals' backs, the period when cattle grubs were present in the warbles, and the period following drop-out of cattle grubs. In addition, cattle grub infestation did not influence carcass grade, backfat thickness, marbling score, or rib eye area when steers were slaughtered 13 wk after the last cattle grub had emerged. Results suggest that relatively low numbers of cattle grubs did not produce measurable effects on performance of cattle that were placed on feed as soon as 15 wk before *Hypoderma* spp. encystment. *Journal of economic entomology*. Feb 1988. v. 81 (1). p. 246-250. Includes references. (NAL Call No.: DNAL 421 J822).

0538

Improving the quality of wool.

Hudgens, R.E. West Lafayette, Ind. : The Service. Animal Sciences AS - Cooperative Extension Service, Purdue University. June 1986. (450). 4 p. (NAL Call No.: DNAL 49.9 IN23).

0539

Induction of lactation: histological and biochemical development of mammary tissue and milk yields of cows injected with estradiol-17 beta and progesterone for 21 days.

JDSCAE. Fleming, J.R. Head, H.H.; Bachman, K.C.; Becker, H.N.; Wilcox, C.J. Champaign, Ill. : American Dairy Science Association. *Journal of dairy science*. Dec 1986. v. 69 (12). p. 3008-3021. ill. Includes references. (NAL Call No.: DNAL 44.8 J822).

0540

Lactational and systemic responses to the supplementation of protected methionine in soybean meal diets.

JDSCAE. Illg, D.J. Sommerfeldt, J.L.; Schingoethe, D.J. Champaign, Ill. : American Dairy Science Association. *Journal of dairy science*. Mar 1987. v. 70 (3). p. 620-629.

Includes references. (NAL Call No.: DNAL 44.8 J822).

0541

Limiting the environment impact of animal production odors (Feedlots, poultry and dairy industry, state air pollution and nuisance laws).

Kreis, R.D. Oxford, New York, Pergamon Press. *Environment international*. 1978. v. 1 (5). p. 247-275. ill., maps. Bibliography p. 272-275. (NAL Call No.: TD169.E54).

0542

Manure management and disease control for swine (Waste management).

Gilbertson, C.B. Hogg, A. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-4510). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0543

Mastitis brouhaha.

DHMG. Merrill, W.G. Galton, D.M. Minnetonka, Minn. : Miller Publishing Co. Dairy herd management. Aug 1987. v. 24 (8). p. 32-34. ill. (NAL Call No.: DNAL SF191.D3).

0544

Pesticides for livestock and farm buildings.

Lyon, William F. 1981. This includes Ohio Poison Control Centers, and pests and their control for lactating dairy cows, beef and non-lactating dairy cattle, sheep, swine, and horses. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 19 p. : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: Bulletin 473).

0545

Qualitative/quantitative determination of (the antibiotic) sulfamethazine in swine tissue by gas chromatographic/electron impact mass spectrometry using a stable isotope labeled internal standard.

Suhre, F.B. Simpson, R.M.; Shafer, J.W. Washington, D.C., American Chemical Society. *Journal of agricultural and food chemistry*. July/Aug 1981. v. 29 (4). p. 727-729. ill. 7

ref. (NAL Call No.: 381 J8223).

Includes references. (NAL Call No.: DNAL FICHE S-72).

0546

Respirable aerosol concentrations in enclosed swine housing.

Van Wicklen, G.L. Yoder, M.F.; Czarick, M. III. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-4528). 12 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

0547

Sources of hens for laboratory use and background neuropathology (Use of hens in toxicological studies).

Bickford, A.A. Little Rock : Intox Press. Neurotoxicology. Dec 1982. v. 3 (4). p. 315-319. Includes references. (NAL Call No.: RC321.N437).

0548

Therapeutic use of antibiotics in farm animals.

ACSMC. Ziv, G. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. In the series analytic: Agricultural uses of antibiotics / edited by William A. Moats. 1986. (320). p. 8-22. Includes references. (NAL Call No.: DNAL QD1.A45).

0549

The transition from hen house to laboratory cage: problems and pitfalls (Use of hens in toxicological studies).

Gross, W.B. Little Rock : Intox Press. Neurotoxicology. Dec 1982. v. 3 (4). p. 295-298. Includes references. (NAL Call No.: RC321.N437).

0550

Turkey grower barn environmental monitoring results.

Janni, K.A. Redig, P.T.; Mulhausen, J.R.; Newman, J.A. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-4527). 14 p.

0551

Use of dietary fat to reduce dust, aerial ammonia and bacterial colony forming particle concentrations in swine confinement buildings.

TAAEA. Chiba, L.I. Peo, E.R. Jr.; Lewis, A.J. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Mar/Apr 1987. v. 30 (2). p. 464-468. Includes references. (NAL Call No.: DNAL 290.9 AM32T).

0552

What's in the box. II. Knowing your cargo and protecting him en route (Horses, transportation).

Follmer, D. Gaithersburg, Md., Equine Health Publications Co. Equus. Mar 1979. Mar 1979. (17). p. 52-55. ill. (NAL Call No.: SF277.E6).

ANIMAL GENETICS

0553

Biochemical and histochemical changes in the placental attachments of the sheep during different stages of gestation.
Datta, I.C. Meur, S.K. New Delhi, Council of Scientific and Industrial Research. Indian journal of experimental biology. Aug 1979. v. 17 (8). p. 833-836. ill. 13 ref. (NAL Call No.: 442.8 IN2).

0554

Breed effects on dieldrin accumulation in the fat of growing chickens.
Siegel, H.S. Latimer, J.W. Champaign, Ill., Poultry Science Association. Poultry science. Oct 1981. v. 60 (10). p. 2218-2220. ill. 5 ref. (NAL Call No.: 47.8 AM33P).

0555

Control external parasites & house flies around poultry operations.
Nolan, M.P. Jr. Athens, Ga. : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Oct 1988. (723,rev.). 22 p. ill. (NAL Call No.: DNAL 275.29 G29B).

0556

Effect of dietary aflatoxin concentration on the assessment of genetic variability of response in a randombred population of chickens.
Lanza, G.M. GENTA. Washburn, K.W.; Wyatt, R.D.; Marks, H.L. Baltimore : Genetics Society of America. Genetics. May 1983. v. 104 (1). p. 123-131. Includes references. (NAL Call No.: 442.8 G28).

0557

Effect of protoporphyrin pigment on shell strength and incidence of meat and blood spots (Chickens, mutants).
Shoffner, R.N. AR-NC. Garwood, V. Champaign, Ill., Poultry Science Association. Poultry science. July 1980. v. 59 (7). p. 1661-1662. (NAL Call No.: 47.8 AM33P).

0558

The effect of selected antibiotics in control of bacterial contamination in semen of Gallus domesticus (Chickens).
Jacobs, L. Sexton, T.J. Champaign, Ill., Poultry Science Association. Poultry science. July 1979. v. 58 (4). p. 1016. (NAL Call No.: 47.8 AM33P).

0559

Effect of spraying White Pekin duck eggs on hatchability.
POSCAL. Sarpong, S. Reinhart, B.S. Champaign, Ill. : Poultry Science Association. Poultry science. Feb 1985. v. 64 (2). p. 221-225. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0560

Effects of antibiotics on reproduction, growth and resistance patterns in swine.
Cromwell, G.L. College Park, Md. Proceedings Maryland Nutrition Conference for Feed Manufacturers, University of Maryland. 1977. 1977. p. 97-105. ill. 19 ref. (NAL Call No.: 389.9 UN342).

0561

The effects of ingested petroleum on oviposition and some aspects of reproduction in experimental colonies of mallard ducks (Anas platyrhynchos) (Environmental pollutants).
Holmes, W.N. Cavanaugh, K.P. Oxford. Journal of reproduction and fertility. Nov 1978. v. 54 (2). p. 335-347. ill., plate. Bibliography p. 346-347. (NAL Call No.: 442.8 J8222).

0562

Efficacy and safety of feed additive usage of antibiotics (Reproductive performance, swine, food residues).
Hays, V.W. Corvallis. Special report Oregon. Agricultural Experiment Station. Dec 1978. Dec 1978. (524). p. 16-31. ill. 9 ref. (NAL Call No.: 100 OR3M).

0563

Estimation of differentiation of sheep breeds by the method of genetic distances.
CYGED. Glazko, V.I. New York, N.Y. : Allerton Press. Cytology and genetics. Translated from: TSitologiya i genetika, p. 116-119. (QH573.T75). 1984. v. 18 (2). p. 38-41. Includes 17 references. (NAL Call No.: DNAL QH573.C92).

0564

Guarding dogs protect sheep from predators (Includes breeding, training).
Green, J.S. XAAIA. Woodruff, R.A. Washington : The Department. Agriculture information bulletin - U.S. Dept. of Agriculture. Jan 1983. Jan 1983. (455). 27 p. ill. Includes references. (NAL Call No.: 1 AG84AB).

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Monoclonal antibody for the protection of neonatal pigs and calves from toxic diarrhea (*Escherichia coli*).
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THGNB. Blanchard, T.L. Varner, D.D.; Love, C.C.; Hurtgen, J.P.; Cummings, M.R.; Kenney, R.M. Los Altos, Calif. : Geron-X. Theriogenology. Oct 1987. v. 28 (4). p. 541-546. Includes references. (NAL Call No.: DNAL QP251.A1T5).

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Chiu, P.W.S. Hsu, C.C. Taichung, National Chung Hsing University, College of Agriculture. Journal of agriculture and forestry. Oct 1977. Oct 1977. (26). p. chi eng. 20 ref. (NAL Call No.: 22.5 J823).

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Calvert, C.C. AR-BARC. Smith, L.W. Champaign, Ill.; American Society of Animal Science. Journal of animal science. Aug 1980. v. 51 (2). p. 414-421. ill. 18 ref. (NAL Call No.: 49 J82).

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Schmidt, S.P. JANS. Hoveland, C.S.; Clark, E.M.; Davis, N.D.; Smith, L.A.; Grimes, H.W.; Holliman, J.L. Champaign : American Society of Animal Science. Journal of animal science. Dec 1982. v. 55 (6). p. 1259-1263. 2 p. ref. (NAL Call No.: 49 J82).

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Association of low levels of aflatoxin in feed with productivity losses in commercial broiler operations (Chickens).

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JONUA. Harris, E.D. Bethesda, Md. : American Institute of Nutrition. The Journal of nutrition. Feb 1986. v. 116 (2). p. 252-258. Includes 28 references. (NAL Call No.: DNAL 389.8 J82).

0637

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KAEB. Begin, J.J. MacLaury, D.W.; Risner, R.; Insko, W.M. Jr. Lexington : The Station. Bulletin - Kentucky, Agricultural Experiment Station. Documents available from: Agriculture Library, Agricultural Science Center - North, University of Kentucky, Lexington, Ky. 40546-0091. June 1953. (597). 12 p. Includes 6 references. (NAL Call No.: DNAL 100 K41 (2)).

0638

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0639

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Leach, R.M. Jr. Wang, K.W.L. Bethesda, American Institute of Nutrition. Journal of nutrition. Mar 1979. v. 109 (3). p. 437-443. ill. 24 ref. (NAL Call No.: 389.8 J82).

0640

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Carcass quality changes with the broiler chicken after dietary protein restriction during the growing phase and finishing period compensatory growth.

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DHMG. Britt, J. Minneapolis : Miller Publishing Co. Dairy herd management. May 1985. v. 22 (5). p. 50. (NAL Call No.: DNAL SF191.D3).

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0646

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Sutton, A.L. AR USDA. Brumm, M.C.; Kelly, D.T.; Henderson, C.A.; Mayrose, V.B. Champaign, Ill., American Society of Animal Science. Journal of animal science. Oct 1980. v. 51 (4). p. 791-797. 17 ref. (NAL Call No.: 49 J82).

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POSCAL. May, J.D. Branton, S.L.; Deaton, J.W.; Simmons, J.D. Champaign, Ill. : Poultry Science Association. Poultry science. Jan 1988. v. 67 (1). p. 64-71. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Turner, H.A. Raleigh, R.J. (s.l.), The Society. Proceedings of the annual meeting - American Society of Animal Science. Western Section. 1980. v. 31. p. 155-156. 9 ref. (NAL Call No.: 389.9 AM31).

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JANSAG. Jones, D.J. Mowrey, D.H.; Anderson, D.B.; Wellenreiter, R.H. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Oct 1987. v. 65 (4). p. 881-885. Includes references. (NAL Call No.: DNAL 49 J82).

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The effects of deoxynivalenol (Vomitoxin) on dietary preference of White Leghorn hens.
POSCAL. Hamilton, R.M.G. Thompson, B.K.; Trenholm, H.L. Champaign, Ill. : Poultry Science Association. Poultry science. Feb 1986. v. 65 (2). p. 288-293. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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0701

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0704

Effects of feeding deoxynivalenol (DON, vomitoxin)-contaminated wheat to female White Leghorn chickens from day old through egg production.

POSCAL. Kubena, L.F. Harvey, R.B.; Corrier, D.E.; Huff, W.E.; Phillips, T.D. Champaign, Ill. : Poultry Science Association. Poultry science. Oct 1987. v. 66 (10). p. 1612-1618. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0705

Effects of feeding deoxynivalenol (vomitoxin)-contaminated wheat to growing chicks.

POSCAL. Kubena, L.F. Swanson, S.P.; Harvey, R.B.; Fletcher, O.J.; Rowe, L.D.; Phillips, T.D. Champaign, Ill. : Poultry Science Association. Poultry science. Literature review. Sept 1985. v. 64 (9). p. 1649-1655. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0706

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POSCAL. Lun, A.K. Young, L.G.; Moran, E.T. Jr.; Hunter, D.B.; Rodriguez, J.P. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1095-1099. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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0708

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JANSAG. Hale, O.M. Utley, P.R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Nov 1985. v. 61 (5). p. 1172-1177. Includes references. (NAL Call No.: DNAL 49 J82).

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NURIB. Buresh, R.E. Harms, R.H.; Miles, R.D. Los Altos, Calif. : Geron-X, Inc. Nutrition reports international. May 1986. v. 33 (5). p. 787-792. Includes 14 references. (NAL Call No.: DNAL RC620.A1N8).

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0712

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Bartov, I. POSCA. Champaign : Poultry Science Association. Poultry science. Nov 1983. v. 62 (11). p. 2195-2200. Includes references. (NAL Call No.: 47.8 AM33P).

0714

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0715

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0716

Effects of sodium diacetate on the growth, feed efficiency, and intestinal microflora of broilers.

POSCAL. Singh, A. Din, Z.Z.; Maurer, A.J.; Sunde, M.L. Champaign, Ill. : Poultry Science Association. Poultry science. May 1985. v. 64 (5). p. 844-851. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0717

Effects of the dietary inclusion of copper and (or) antibiotics on the performance of weanling pigs.

Stahly, T.S. Cromwell, G.L.; Monegue, H.J. Champaign, Ill., American Society of Animal Science. Journal of animal science. Dec 1980. v. 51 (6). p. 1347-1351. 12 ref. (NAL Call No.: 49 J82).

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0719

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OKAMA. Smith, M.D. Teeter, R.G. Stillwater : The Station. Annual report - Oklahoma Agricultural Experiment Station. May 1985. (MP-117). p. 349-352. (NAL Call No.: DNAL 100 OK4).

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0721

Efficacy of nosisheptide as a growth promotant for growing-finishing swine--a cooperative study.

JANSAG. Cromwell, G.L. Stahly, T.S.; Speer, V.C.; O'Kelly, R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Nov 1984. v. 59 (5). p. 1125-1128. Includes references. (NAL Call No.: DNAL 49 J82).

0722

Efficacy of thiopeptin as a growth promotant for growing barrows and gilts--a comparative study.

JANSAG. Cromwell, G.L. Stahly, T.S.; Jensen, A.H.; Plumlee, M.P.; Krider, J.L.; Russett, J.C. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Oct 1984. v. 59 (4). p. 892-895. Includes references. (NAL Call No.: DNAL 49 J82).

0723

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JANSAG. Anderson, S.J. Klopfenstein, T.J.; Wilkerson, V.A. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Jan 1988. v. 66 (1). p. 237-242. Includes references. (NAL Call No.: DNAL 49 J82).

0724

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Hogberg, M.G. East Lansing, Mich. : The Station. Research report - Michigan State University, Agricultural Experiment Station. Oct 1983. (456). p. 27-28. (NAL Call No.: DNAL 284.9 M58).

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Factors affecting feed conversion in growing-finishing swine.

Reese, D.E. Liptrap, D.O.; Parker, G.R.; Cromwell, G.L.; Stahly, T.S. Lexington, Ky., The Service. ASC - University of Kentucky, Cooperative Extension Service. 1985. (104). 5 p. (NAL Call No.: DNAL SF191.K4).

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Failure of dietary dimethylsulfoxide to protect against aflatoxin in young broiler chickens.

Yen, C.C.C. Hamilton, P.B. Champaign, Ill., Poultry Science Association. Poultry science. Feb 1982. v. 61 (2). p. 255-257. Includes 12 ref. (NAL Call No.: 47.8 AM33P).

0727

Feed additive studies with newly weaned pigs: efficacy of supplemental copper, antibiotics and organic acids.

JANSAG. Edmonds, M.S. Izquierdo, O.A.; Baker, D.H. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1985. v. 60 (2). p. 462-469. Includes references. (NAL Call No.: DNAL 49 J82).

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Feed additives for swine.

Whiteker, Mack D. Hays, Virgil W.; Parker, Gary R. & Pork industry handbook. 1979. This publication discusses feed additives for swine, including antibiotics, chemotherapeutics, anthelmintics, choosing a feed additive, proper use, and tables of additives. Document available from: Michigan State University, Bulletin Office, P.O. Box 231, East Lansing, Michigan 48824. 4 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: Extension Bulletin E-1156).

0729

Feed additives for swine (Antibiotics, chemotherapeutics, anthelmintics).

Whiteker, M.D. Hays, V.W. Stillwater, Okla., Cooperative Extension Service, Oklahoma State University. Pork industry handbook. PIH. May 1979. May 1979. (31). 4 p. (NAL Call No.: SF391.P6).

0730

Feed intake and digestion by beef cows fed prairie hay with different levels of soybean meal and receiving postruminal administration of antibiotics.

JANSAG. Stokes, S.R. Goetsch, A.L.; Jones, A.L.; Landis, K.M. Champaign, Ill. : American Society of Animal Science. Journal of animal science. July 1988. v. 66 (7). p. 1778-1789. Includes references. (NAL Call No.: DNAL 49 J82).

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Feed withdrawal and broiler shrink (Carcass contamination).

Leeson, S. Summers, J. San Francisco, California Farmer. Animal nutrition & health. June/July 1981. v. 36 (5). p. 28-35. ill. (NAL Call No.: 389.78 W52).

0732

Feeder system maintenance, clean-out termed essential (Poultry equipment, sanitation).

Reynnells, R.D. Mount Morris, Ill., Watt Publishing Co. Poultry digest. Mar 1982. v. 41 (481). p. 144, 146. (NAL Call No.: 47.8 N219).

0733

Feeding milk containing Staphylococcus aureus to calves.

Barto, P.B. Bush, L.J.; Adams, G.D. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Feb 1982. v. 65 (2). p. 271-274. Includes 8 ref. (NAL Call No.: 44.8 J822).

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0734

Feeding trials with vomitoxin (deoxynivalenol)-contaminated wheat: effects on swine, poultry, and dairy cattle (Toxicity, residues).

Trenholm, H.L. Hamilton, R.M.G.; Friend, D.W.; Thompson, B.K.; Hartin, K.E. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Sept 1, 1984. v. 185 (5). p. 527-531. ill. Includes 27 references. (NAL Call No.: 41.8 AM3).

0735

Feedlot performance and metabolism parameters of lambs fed vomitoxin-contaminated hard red winter wheat.

Oltjen, R.R. Wallace, M.H.; Doupnik, B. Jr.; Klopfenstein, T.J.; Varel, V.H. Beltsville, Md. : The Service. ARS - United States Department of Agriculture, Agricultural Research Service. Dec 1984. (20). p. 46-47. (NAL Call No.: DNAL aS21.R44A7).

0736

Food waste recycling through swine.

COMPA. Price, A.T. Derr, D.A.; Suhr, J.L.; Higgins, A.J. Emmaus, Pa. : J.G. Press. BioCycle. Mar 1985. v. 26 (2). p. 34-37. ill. Includes 8 references. (NAL Call No.: DNAL 57.8 C734).

0737

Fumaric and citric acids as feed additives in starter pig diets: effect on performance and nutrient balance.

JANSAG. Radecki, S.V. Juhl, M.R.; Miller, E.R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Oct 1988. v. 66 (10). p. 2598-2605. Includes references. (NAL Call No.: DNAL 49 J82).

0738

Fungistatic compounds in broiler production. 1. Effect on rate of gain and feed utilization (contamination).

Dilworth, B.C. Chen, T.C. Champaign, Ill., Poultry Science Association. Poultry science. Nov 1979. v. 58 (6). p. 1440-1450. ill. 12 ref. (NAL Call No.: 47.8 AM33P).

0739

Furazolidone-induced congestive cardiomyopathy in ducklings: lack of protection from selenium, vitamin E, and taurine supplements.

Van Vleet, J.F. AJVRA. Ferrans, V.J. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. June 1983. v. 44 (6). p. 1143-1148. ill. Includes

references. (NAL Call No.: 41.8 AM3A).

0740

Furazolidone residues in chicken and swine tissues after feeding trials (Growth promoters, residues).

Winterlin, W. Mourer, C.; Hall, G.; Kratzer, F.; Weaver, G.L.H. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1984. v. 19 (2). p. 209-224. Includes references. (NAL Call No.: TD172.J61).

0741

Further use of moldy corn with growing-finishing hogs.

Wilson, R.F. McNear, R.; Stitzlein, G. Wooster, Ohio. The Center. Ohio swine research and industry report. Animal science series - Ohio Agricultural Research and Development Center. 1980. 1980. (80-2). p. 26-27. (NAL Call No.: SF391.052).

0742

Gas chromatographic determination of avilamycin total residues in pig tissues, fat, blood, feces, and urine.

JANCA2. Formica, G. Giannone, C. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. Sept/Oct 1986. v. 69 (5). p. 763-766. (NAL Call No.: DNAL 381 AS7).

0743

Growth and carcass characteristics of broiler chickens fed virginiamycin (an antibiotic produced by Streptomyces virginiae).

Leeson, S. Los Altos, Calif. : Geron-X, Inc. Nutrition reports international. June 1984. v. 29 (6). p. 1383-1389. Includes references. (NAL Call No.: RC620.A1N8).

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Halogenated hydrocarbon residues in ewes grazing contaminated soil.

Fries, G.F. Marrow, G.S. Champaign, Ill., American Society of Animal Science. Journal of animal science. 1978. v. 47 (suppl.1). p. 259. (NAL Call No.: 49 J82).

0745

Heat-treating food waste--equipment and methods (Processing garbage for swine feed, sanitation).

James, P. Washington, D.C. : The Department. Program aid - United States Department of Agriculture. Sept 1983. Supercedes Program Aid no. 370. Sept 1983. (1324). 19 p. ill. (NAL Call No.: 1 AG84PRO).

0746

High performance liquid chromatographic determination and clearance time of aflatoxin residues in swine tissues.

Miller, D.M. Wilson, D.M.; Wyatt, R.D.; McKinney, J.K.; Crowell, W.A.; Stuart, B.P. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. Jan 1982. v. 65 (1). p. 1-4. Includes 17 ref. (NAL Call No.: 381 AS7).

0747

High tolerance of broilers to vomitoxin from corn infected with *Fusarium graminearum* (chickens).

Moran, E.T. Jr. Hunter, B.; Ferket, P.; Young, L.G.; McGinn, L.G. Champaign, Ill., Poultry Science Association. Poultry science. Sept 1982. v. 61 (9). p. 1828-1831. 13 ref. (NAL Call No.: 47.8 AM33P).

0748

Histopathological and biochemical effects of feeding excess dietary methionine to broiler chicks.

Ekperigin, H.E. Vohra, P. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Jan/Mar 1981. v. 25 (1). p. 82-95. ill. 29 ref. (NAL Call No.: 41.8 AV5).

0749

Ileal antibiotic administration and dietary protein level for beef heifers fed roughage diets.

OKAMA. Goetsch, A.L. Owens, F.N.; Poling, K.B. Stillwater : The Station. Annual report - Oklahoma Agricultural Experiment Station. May 1985. (MP-117). p. 308-314. Includes references. (NAL Call No.: DNAL 100 OK4).

0750

Impact of cattle grub (*Hypoderma* spp.) (Diptera: Oestridae) infestations on performance of beef cattle.

JEENAI. Scholl, P.J. Hironaka, R.; Weintraub, J. Lanham, Md. : Entomological Society of America. Forty-five weaned Angus steer calves,

Bos taurus, were obtained from a ranch at the interface between a large area (southern Alberta, Canada) with a history of several years' treatment with systemic insecticides for cattle grubs, *Hypoderma lineatum* (Villiers) and *Hypoderma bovis* (L.), and an area where there had been treatment for only 1 yr. Thus, we expected that these animals would receive different levels of cattle grub infestation pressure and have different numbers of encysted larvae. The steers were not exposed to systemic insecticides; they were evaluated for the effects of the cattle grubs on performance. Peak numbers of cattle grubs that appeared in the backs of these animals ranged from 2 to 39. The influence of level of cattle grub infestation on the performance of these steers during the period when the larvae were migrating to and emerging from the animals' backs did not influence the steers' rate of gain, feed intake, or feed-to-gain ratio. The entire growth period from weaning to slaughter was divided and analyzed as three distinct periods: the period before the cattle grubs appeared in the animals' backs, the period when cattle grubs were present in the warbles, and the period following drop-out of cattle grubs. In addition, cattle grub infestation did not influence carcass grade, backfat thickness, marbling score, or rib eye area when steers were slaughtered 13 wk after the last cattle grub had emerged. Results suggest that relatively low numbers of cattle grubs did not produce measurable effects on performance of cattle that were placed on feed as soon as 15 wk before *Hypoderma* spp. encystment. Journal of economic entomology. Feb 1988. v. 81 (1). p. 246-250. Includes references. (NAL Call No.: DNAL 421 J822).

0751

In utero exposure of bovine fetuses to polychlorinated biphenyls (Cows, contaminated silage, toxicity).

Perry, T.W. JDSCAE. Everson, R.J.; Hendrix, K.S.; Peterson, R.C.; Robinson, F.R. Champaign : American Dairy Science Association. Journal of dairy science. Jan 1984. v. 67 (1). p. 224-228. Includes references. (NAL Call No.: 44.8 J822).

0752

In vitro antifungal activity of gentian violet (Mold inhibitor in feed, poultry).

Hall, C.L. Hamilton, P.B. Champaign, Ill., Poultry Science Association. Poultry science. Jan 1982. v. 61 (1). p. 62-66. ill. Includes 23 ref. (NAL Call No.: 47.8 AM33P).

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0753

Individual and combined effects of aflatoxin and ochratoxin A on bruising in broiler chickens (Mycotoxins).

Huff, W.E. POSCA. Doerr, J.A.; Wabeck, C.J.; Chaloupka, G.W.; May, J.D. Champaign : Poultry Science Association. Poultry science. Sept 1983. v. 62 (9). p. 1764-1771. Includes references. (NAL Call No.: 47.8 AM33P).

0754

The individual and combined use of antibiotic feed additives in lamb finishing rations.

Lewis, R.M. Zometa, C.A.; Calhoun, M.C.; Shelton, M. College Station, Tex. : Texas Agricultural Experiment Station. Sheep and goat, wool and mohair. 1986. p. 41-43. Includes references. (NAL Call No.: DNAL SF375.4.T4S43).

0755

Influence of cottonseed meal supplementation and cecal antibiotic infusion in lambs fed low-quality forage. I. Intake, digestibility, nitrogen balance and ruminal and cecal digesta kinetics.

JANSAG. Caton, J.S. Hoefler, W.C.; Galyean, M.L.; Funk, M.A. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Sept 1988. v. 66 (9). p. 2245-2252. Includes references. (NAL Call No.: DNAL 49 J82).

0756

Influence of cottonseed meal supplementation and cecal antibiotic infusion in lambs fed low-quality forage. II. Serum urea-nitrogen, insulin, somatotropin, free fatty acids and ruminal and cecal fermentation.

JANSAG. Caton, J.S. Hoefler, W.C.; Galyean, M.L.; Funk, M.A. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Sept 1988. v. 66 (9). p. 2253-2261. Includes references. (NAL Call No.: DNAL 49 J82).

0757

Influence of Monoprop in controlling mold growth and improving chick performance when fed high moisture corn.

POSCAL. Bell, D.E. Marion, J.E.; Harms, R.H. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1987. v. 66 (9). p. 1495-1499. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0758

Influence of prepubertal consumption of zearalenone on sexual development of boars.

Berger, T. Esbenshade, K.L.; Diekman, M.A.; Hoagland, T.; Tuite, J. Champaign, Ill., American Society of Animal Science. Journal of animal science. Dec 1981. v. 53 (6). p. 1559-1564. 27 ref. (NAL Call No.: 49 J82).

0759

Influence of virginiamycin on broiler performance, uniformity and litter quality (Antibiotics).

Miles, R.D. Harms, R.H. Los Altos, Calif. : Geron-X, Inc. Nutrition reports international. Apr 1984. v. 29 (4). p. 971-975. Includes references. (NAL Call No.: RC620.A1N8).

0760

Influence of virginiamycin on energy utilization of turkey poultts (Antibiotics).

Buresh, R.E. Miles, R.D.; Harms, R.H. Los Altos, Calif. : Geron-X, Inc. Nutrition reports international. June 1984. v. 29 (6). p. 1451-1455. Includes references. (NAL Call No.: RC620.A1N8).

0761

Ingestion of vomitoxin (Deoxynivalenol)-contaminated wheat by nonlactating dairy cows.

JDSCAE. Trenholm, H.L. Thompson, B.K.; Hartin, K.E.; Greenhalgh, R.; McAllister, A.J. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Apr 1985. v. 68 (4). p. 1000-1005. Includes 22 references. (NAL Call No.: DNAL 44.8 J822).

0762

The interaction of antibiotics and pen space for nursery pigs.

Wilson, R.F. Kelleher, S.; Drummond, S.; Stitzlein, G. Wooster, Ohio, The Center. Ohio swine research and industry report. Animal science series - Ohio Agricultural Research and Development Center. 1981. (81-2). p. 26. (NAL Call No.: SF391.052).

0763

Interactions between vitamin nutrition and aflatoxin in agricultural animals (Poultry, cattle, swine).

Hagler, W.M. Jr. Hamilton, P.B. Arlington : Society for Industrial Microbiology. Developments in industrial microbiology. 1982. v. 23. p. 247-256. 3 p.ref. (NAL Call No.: 448.3 D49).

0764

Lactational and systemic responses to the supplementation of protected methionine in soybean meal diets.

JDSCAE. Illg, D.J. Sommerfeldt, J.L.; Schingoethe, D.J. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Mar 1987. v. 70 (3). p. 620-629. Includes references. (NAL Call No.: DNAL 44.8 J822).

0765

Lasalocid and monensin effects on intake, gain, and efficiency of growing calves (Polyether antibiotics with influence ruminal metabolism, feed efficiency, supplements).

Boling, J.A. Smith, S.I.; Reffett, J.K.; Bradley, N.W.; Gay, N. Lexington, Ky., The Station. Progress report - Kentucky Agricultural Experiment Station. July 1982. July 1982. (265). p. 16. (NAL Call No.: 100 K41PR).

0766

Lipid coating as a mode of protecting free methionine from ruminal degradation (Lambs, plasma methionine, nitrogen retention).

Smith, S.I. JANS. Boling, J.A. Champaign : American Society of Animal Science. Journal of animal science. Jan 1984. v. 58 (1). p. 187-193. Includes references. (NAL Call No.: 49 J82).

0767

Liquid supplements for lactating cows based on liquid streptomyces solubles and cane molasses with or without condensed molasses solubles (By-products of antibiotic manufacture, stillage from rum manufacture).

Randel, P.F. Vallejo, B. Rio Piedras, The Station. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Jan 1982. v. 66 (1). p. 11-17. Includes 6 ref. (NAL Call No.: 8 P832J).

0768

Liver lipid levels in White Leghorn hens fed diets that contained wheat contaminated by deoxynivalenol (Vomitoxin).

Farnworth, E.R. POSCA. Hamilton, R.M.G.; Thompson, B.K.; Trenholm, H.L. Champaign : Poultry Science Association. Poultry science. May 1983. v. 62 (5). p. 832-836. Includes references. (NAL Call No.: 47.8 AM33P).

0769

Low levels of aflatoxin safe for young turkeys and chickens.

HARAA. Giambrone, J.J. Diener, U.L.; Davis, N.; Panangalan, V.S.; Hoerr, F.J. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama Agricultural Experiment Station. Spring 1986. v. 33 (1). p. 3. ill. (NAL Call No.: DNAL 100 AL1H).

0770

Management to prevent drug residue problems in pork (Swine, nutrition).

Cromwell, G.L. Biehl, L.G.; Wilcox, R.A. West Lafayette, Ind. : The Service, 1978/1984. Pork industry handbook / Purdue University, Cooperative Extension Service. PIH-86, Mar 1983. 6 p. ill. (NAL Call No.: SF395.P62).

0771

Metabolic effects of feeding protected tallow to dairy cows.

Kronfeld, D.S. Donoghue, S.; Naylor, J.M.; Johnson, K.; Bradley, C.A. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Apr 1980. v. 63 (4). p. 545-552. ill. 21 ref. (NAL Call No.: 44.8 J822).

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Hand, M.S. Hunt, E.; Phillips, R.W. Philadelphia, Pa. : W.B. Saunders Company. The Veterinary clinic of North America : food animal practice. In the series analytic: Calf diarrhea / edited by Elaine Hunt. ~ Literature review. Nov 1985. v. 1 (3). p. 589-608. Includes references. (NAL Call No.: DNAL SF601.V535).

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Models of feed refusal syndrome in poultry.

Burditt, S.J. POSCA. Hagler, W.M. Jr.; Hutchins, J.E.; Hamilton, P.B. Champaign : Poultry Science Association. Poultry science. Nov 1983. v. 62 (11). p. 2158-2163. Includes references. (NAL Call No.: 47.8 AM33P).

0774

Moldy corn in diets of gestating and lactating swine.

Young, L.G. King, G.J.; McGirr, L.; Sutton, J.C. Champaign, Ill., American Society of Animal Science. Journal of animal science. May 1982. v. 54 (5). p. 976-982. Includes 10 ref. (NAL Call No.: 49 J82).

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0775

Mycotoxins in animal feeds: an update (Rats, swine, mycotoxicosis).
Smith, T.K. James, L.J. Minneapolis, Miller. Feedstuffs. Nov 17, 1980. v. 52 (47). p. 30-31. 8 ref. (NAL Call No.: 286.81 F322).

0776

New strategies in search of control of aflatoxin formation in poultry feeds by marine algae.
NURIB. El-Shayeb, N.M.A. Mabrouk, S.S.; El-Refai, A.H. Los Altos, Calif. : Geron-X, Inc. Nutrition reports international. Nov 1985. v. 32 (5). p. 1021-1027. Includes 19 references. (NAL Call No.: DNAL RC620.A1N8).

0777

Nutrients and toxicants in rapeseed meal: a review (Pigs, cattle, composition, toxic factors, glucosinolates).
Bell, J.M. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Apr 1984. Paper presented at the Symposium on Natural Plant Toxins and Their Effects on Livestock Production, Guelph, Canada, August 9, 1982 ~Literature review. v. 58 (4). p. 996-1010. Includes references. (NAL Call No.: 49 J82).

0778

Nutrition and management of early-weaned pigs: diets for protecting rotavirus-exposed pigs weaned at 1 to 5 days of age.
Lecce, J.G. King, M.W. Champaign, Ill., American Society of Animal Science. Journal of animal science. Sept 1981. v. 53 (3). p. 677-682. 18 ref. (NAL Call No.: 49 J82).

0779

Nutrition of the weaned pig.
Allee, G.L. College Park : The Conference. Proceedings - Maryland Nutrition Conference for Feed Manufacturers. 1985. p. 56-60. Includes references. (NAL Call No.: DNAL 389.9 UN342).

0780

Nutritional implications of the maillard reaction. The metabolism of fructose-phenylalanine in the rat (Includes effects of antibiotics, significance for chick growth).
Johnson, G.H. Baker, D.H. Bethesda, American Institute of Nutrition. Journal of nutrition. Apr 1979. v. 109 (4). p. 590-596. ill. 7 ref. (NAL Call No.: 389.8 J82).

0781

Nutritional supplements for animals: antibiotics.
Shor, A.L. Boca Raton, Fla. : CRC Press, c1983. CRC handbook of nutritional supplements / editor, Miloslav Rechcigl, Jr. p. 121-128. Includes 8 references. (NAL Call No.: DNAL TX553.A3C73).

0782

Nutritional value of anaerobically fermented beef cattle wastes in diets for beef cattle and sheep.
Prior, R.L. Britton, R.A.; Hashimoto, A.G. St. Joseph, Mich., American Society of Agricultural Engineers, c1981. Livestock waste: a renewable source; proceedings, 4th International Symposium on Livestock Wastes - 1980, April 15-17, 1980, Amarillo Civic Center, Amarillo, Texas. International Symposium on Livestock Wastes (4th : 1980 : Amarillo, Tex.). p. 54-58, 60. 9 ref. (NAL Call No.: TD811.I5).

0783

Performance of broiler chicken raised on built-up and fresh litters with their feed supplemented with antibiotics, coccidiostats and their combinations.
Aggarwal, C.K. Singh, R.A. Madras, Indian Veterinary Association. Indian veterinary journal. Dec 1978. v. 55 (12). p. 952-957. ill. 7 ref. (NAL Call No.: 41.8 IN2).

0784

Performance of goats and lambs fed corn silage produced on sludge-amended soil (Zea mays, Capra hircus, Ovis aries).
Dowdy, R.H. JEVQA. Bray, B.J.; Goodrich, R.D.; Marten, G.C.; Pamp, D.E. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 467-472. Includes references. (NAL Call No.: QH540.J6).

0785

Performance of growing-finishing swine fed high levels of alfalfa meal: effects of alfalfa level, dietary additives and antibiotics (Bentonite, glutamic acid, wheat bran, penicillin, chlortetracycline, Virginiamycin).
Powley, J.S. Cheeke, P.R.; England, D.C.; Davidson, T.P.; Kennick, W.H. Champaign, Ill., American Society of Animal Science. Journal of animal science. Aug 1981. v. 53 (2). p. 308-316. 7 ref. (NAL Call No.: 49 J82).

0786

Performance of lactating dairy cows fed tall fescue forage.

JDSCAE. Strahan, S.R. Hemken, R.W.; Jackson, J.A. Jr.; Buckner, R.C.; Bush, L.P.; Siegel, M.R. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. June 1987. v. 70 (6). p. 1228-1234. Includes references. (NAL Call No.: DNAL 44.8 J822).

0787

Performance, ruminal measurements and blood plasma amino acids of steers fed ronnel (Organophosphorus systemic insecticide, improved feedlot performance).

Rumsey, T.S. Champaign, Ill., American Society of Animal Science. Journal of animal science. Oct 1979. v. 49 (4). p. 1059-1065. ill. 8 ref. (NAL Call No.: 49 J82).

0788

The physiological effects of feeding warfarin to poultry.

Veltmann, J.R. Jr. Ross, E.; Olbrich, S.E. Champaign, Ill., Poultry Science Association. Poultry science. Dec 1981. v. 60 (12). p. 2603-2611. Includes 34 ref. (NAL Call No.: 47.8 AM33P).

0789

Polychlorinated biphenyl, pesticide, and heavy metal residues in swine foraging on sewage sludge amended soils (Effect of maize feed contamination).

Hansen, L.G. Washko, P.W.; Tuinstra, G.M.T.; Dorn, S.B.; Hinesly, T.D. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1981. v. 29 (5). p. 1012-1017. ill. 36 ref. (NAL Call No.: 381 J8223).

0790

A program for residue avoidance on an Illinois pork farm.

Pate, S.R. Kansas City, Mo. : The Association. Proceedings of annual meeting - American Association of Swine Practitioners. Meeting held on March 16-18, 1986, Minneapolis, Minnesota. 1986. p. 373-374. (NAL Call No.: DNAL SF971.A44).

0791

Protection against acute ammonia toxicity by clinoptilolite in mature sheep.

NURIB. Pond, W.G. Los Altos, Calif. : Geron-X, Inc. Nutrition reports international. Oct 1984. v. 30 (4). p. 991-1002. Includes 17 references. (NAL Call No.: DNAL RC620.A1N8).

0792

Protection against ammonia toxicity by clinoptilolite in sheep.

Pond, W.G. Beltsville, Md. : The Service. ARS - United States Department of Agriculture, Agricultural Research Service. In subseries: Sheep Research Program. Progress Report No. 3. Nov 1987. (68). p. 30-33. (NAL Call No.: DNAL aS21.R44A7).

0793

Protective effects of supplemental vitamin E against infection (in chickens).

Nockels, C.F. Bethesda, Md. Federation proceedings Federation of American Societies for Experimental Biology. June 1979. v. 38 (7). p. 2134-2138. ill. 17 ref. (NAL Call No.: 442.9 F31P).

0794

Reduced vitamin A levels of chicks feed anaerobically digested sewage sludge (Deficiency).

Kienholz, E.W. Young, N.S.K.; Smith, J.L.; Whiteman, C.A. Champaign, Ill., Poultry Science Association. Poultry science. Apr 1981. v. 60 (4). p. 844-886. 6 ref. (NAL Call No.: 47.8 AM33P).

0795

Reducing effects of mycotoxins through nutrition (Aflatoxins, poultry, feeds).

Veltmann, J.R. Jr. Mount Morris, Ill. : Watt Publishing Company. Poultry digest. May 1984. Literature review. v. 43 (507). p. 190-192, 194. Includes references. (NAL Call No.: 47.8 N219).

0796

The relationship between yeast and mold populations in litter of broilers fed dietary fungistatic compounds.

Arafa, A.S. Miles, R.D.; Harms, R.H.; Chen, T.C.; Dilworth, B.C.; Day, E.J.; DiFate, V.G.; Romoser, G.L.; Shaver, K.J. Champaign, Ill., Poultry Science Association. Poultry science. Jan 1982. v. 61 (1). p. 46-51. ill. Includes 10 ref. (NAL Call No.: 47.8 AM33P).

0797

Renal and biochemical changes produced in broilers by high-protein, high-calcium, urea-containing, and vitamin-A-deficient diets (Chickens, nephritis).

Chandra, M. Singh, B.; Soni, G.L.; Ahuja, S.P. Kennett Square : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1984. v. 28 (1). p. 1-11. ill. Includes references. (NAL

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0798

Research note: effect of prefeeding on physiological parameters associated with turkey poult mortality.

POSCAL. Phelps, P.V. Gildersleeve, R.P.; Edens, F.W. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1987. v. 66 (11). p. 1882-1884. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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(ANIMAL NUTRITION)

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JANSAG. Russell, J.B. Strobel, H.J. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1988. v. 66 (2). p. 552-558. Includes references. (NAL Call No.: DNAL 49 J82).

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JANSAG. Goetsch, A.L. Owens, F.N. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Mar 1986. v. 62 (3). p. 844-856. Includes references. (NAL Call No.: DNAL 49 J82).

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JANSAG. Hale, O.M. Utley, P.R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Nov 1985. v. 61 (5). p. 1172-1177. Includes references. (NAL Call No.: DNAL 49 J82).

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POSCAL. Singh, A. Din, Z.Z.; Maurer, A.J.; Sunde, M.L. Champaign, Ill. : Poultry Science Association. Poultry science. May 1985. v. 64 (5). p. 844-851. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0870

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POSCAL. Sofos, J.N. Fagerberg, D.J.; Quarles, C.L. Champaign, Ill. : Poultry Science Association. Poultry science. May 1985. v. 64 (5). p. 832-840. ill. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

0871

Efficacy of nosiheptide as a growth promotant for growing-finishing swine--a cooperative study.

JANSAG. Cromwell, G.L. Stahly, T.S.; Speer, V.C.; O'Kelly, R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Nov 1984. v. 59 (5). p. 1125-1128. Includes references. (NAL Call No.: DNAL 49 J82).

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JANSAG. Cromwell, G.L. Stahly, T.S.; Jensen, A.H.; Plumlee, M.P.; Krider, J.L.; Russett, J.C. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Oct 1984. v. 59 (4). p. 892-895. Includes references. (NAL Call No.: DNAL 49 J82).

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JANSAG. Anderson, S.J. Klopfenstein, T.J.; Wilkerson, V.A. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Jan 1988. v. 66 (1). p. 237-242. Includes references. (NAL Call No.: DNAL 49 J82).

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0876

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JDSCAE. Cote, L.M. Dahlem, A.M.; Yoshizawa, T.; Swanson, S.P.; Buck, W.B. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Sept 1986. v. 69 (9). p. 2416-2423. ill. Includes references. (NAL Call No.: DNAL 44.8 J822).

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JANSAG. Radecki, S.V. Juhl, M.R.; Miller, E.R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Oct 1988. v. 66 (10). p. 2598-2605. Includes references. (NAL Call No.: DNAL 49 J82).

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JDSCAE. Hassan, A. Hamouda, I.A. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. July 1985. v. 68 (7). p. 1647-1651. Includes 26 references. (NAL Call No.: DNAL 44.8 J822).

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POSCAL. Smith, R.C. Gore, J.Z.; Roland, D. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1988. v. 67 (11). p. 1632-1635. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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JANSAG. Tobioka, H. Kawashima, R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1985. v. 60 (2). p. 511-518. Includes references. (NAL Call No.: DNAL 49 J82).

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POSCAL. Bell, D.E. Marion, J.E.; Harms, R.H. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1987. v. 66 (9). p. 1495-1499. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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POSCAL. Robinson, F.E. Kerrigan, B.; Sinclair, R.W.; Bull, S.A.; Sun, S.S. Champaign, Ill. : Poultry Science Association. Poultry science. Oct 1988. v. 67 (10). p. 1486-1489. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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JANSAG. Zinn, R.A. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Dec 1986. v. 63 (6). p. 2013-2017. Includes references. (NAL Call No.: DNAL 49 J82).

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BBRCA. Schwab, B.W. Davis, C.S.G.; Miller, P.H.; Richardson, R.J. Orlando, Fla. : Academic Press. Biochemical and biophysical research communications. Oct 15, 1985. v. 132 (1). p. 81-87. Includes references. (NAL Call No.: DNAL 442.8 B5236).

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APMBA. Feighner, S.D. Dashkevich, M.P. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. Feb 1987. v. 53 (2). p. 331-336. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Akhtar, M.H. Foster, T.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 766-771. ill. 15 ref. (NAL Call No.: 381 J8223).

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DHMG. Britt, J. Minneapolis : Miller Publishing Co. Dairy herd management. May 1985. v. 22 (5). p. 50. (NAL Call No.: DNAL SF191.D3).

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A comprehensive compendium of chicken drugs /by Stephen F. Sundlof, J. Edmond Riviere, Arthur L. Craigmill.
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Controlling contamination of milk and reducing udder infection using practical steps in dairy hygiene.
BOVPB. Bushnell, R.B. Stillwater : American Association of Bovine Practitioners. The Bovine practitioner. Nov 1984. (19). p. 134-138. (NAL Call No.: DNAL SF779.5.A1B6).

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Maxwell, C.V. Buchanan, D.S.; Luce, W.G.; McLaren, D.; Vencil, R. Stillwater : The Station. Miscellaneous publication - Agricultural Experiment Station, Oklahoma State University. June 1982. June 1982. (112). p. 235-240. (NAL Call No.: 100 OK4 (3)).

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Breeden, Lowell. Document available from: Kansas State University, Distribution Center, Umberger Hall, Manhattan, Kansas 66506 1981. This publication discusses disinfectants and fumigation methods for the swine farrowing house. 1 folded sheet. (NAL Call No.: Document available from source.)(NAL Call No.: L-506).

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AJVRAH. Cook, J. Naqi, S.A.; Sahin, N.; Wagner, G. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Oct 1984. v. 45 (10). p. 2189-2192. ill. Includes 21 references. (NAL Call No.: DNAL 41.8 AM3A).

0939

Effect of age and housing location on antibiotic resistance of fecal coliforms from pigs in a non-antibiotic-exposed herd.
APMBA. Langlois, B.E. Dawson, K.A.; Leak, I.; Aaron, D.K. Washington, D.C. : American Society for Microbiology. Abstract: The relationship of age and housing location to single antibiotic resistance, multiple antibiotic resistance, and resistance patterns to fecal coliforms obtained during a 20-month period from pigs in a herd that was not exposed to antibiotics for 126 months was determined. Bacteria resistant to single and multiple antibiotics were isolated more frequently (P less than 0.01) from pigs

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under 7 months of age. A greater proportion of isolates from pigs over 6 months of age was sensitive to the 13 antimicrobial agents tested (P less than 0.01), while a smaller proportion showed resistance to single (P less than 0.05) and multiple (P less than 0.01) antibiotics. More than 80% of the resistant isolates were resistant to tetracycline, streptomycin, or sulfisoxazole. Resistance was greater (P less than 0.01) for pigs in the finishing unit than for those on pasture. Resistance to ampicillin, carbenicillin, and tetracycline was greater (P less than 0.05) for pigs in the finishing unit than for those in the farrowing house. More isolates from pigs on pasture were sensitive to all antimicrobial agents tested (P less than 0.01). A greater proportion of isolates from pigs in the finishing unit showed resistance to a single antibiotic (P less than 0.01). The data from this study suggest that exposure to antibiotics is not the only factor that influences the prevalence of bacteria that are resistant to single and multiple antibiotics in the feces of domestic animals and that considerable research is needed to define the factors influencing antibiotic resistance in fecal bacteria. Applied and environmental microbiology. June 1988. v. 54 (6). p. 1341-1344. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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The effect of disinfectants on the density of coliforms in sawdust bedding (Contamination of teat ends of cows).

Bashandy, E.Y. Heider, L.E. Stillwater : American Association of Bovine Practitioners. The Bovine practitioner. Nov 1982. Nov 1982. (17). p. 16-19. 1 p. ref. (NAL Call No.: SF779.5.A1B6).

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The effect of Lactobacillus spp. on convalescing calves.

Beeman, K. Santa Barbara, Calif. : Veterinary Practice Publishing Company. Agri-Practice. Nov/Dec 1985. v. 6 (10). p. 8, 10. Includes 3 references. (NAL Call No.: DNAL SF601.B6).

0942

Effects of premilking udder hygiene on environmental bacterial contamination, chemical residue, and sediment in milk.

BOVPB. Galton, D.M. Stillwater : American Association of Bovine Practitioners. The Bovine practitioner. Literature review. Nov 1984. (19). p. 139-143. Includes 26 references. (NAL Call No.: DNAL SF779.5.A1B6).

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Effects of premilking udder hygiene on environmental bacterial contamination, chemical residue, and sediment in milk.

Galton, D.M. Petersson, L.G.; Merrill, W.G. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. Literature review. 1984. (23rd). p. 19-30. Includes 27 references. (NAL Call No.: DNAL SF967.M3N32).

0944

Effects of premilking udder preparation on bacterial population, sediment, and iodine residue milk.

JDSCAE. Galton, D.M. Petersson, L.G.; Merrill, W.G.; Bandler, D.K.; Shuster, D.E. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Nov 1984. v. 67 (11). p. 2580-2589. Includes 35 references. (NAL Call No.: DNAL 44.8 J822).

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Efficacy of the API Staph-Ident system for identification of Staphylococcus species from milk.

AJVRH. Jasper, D.E. Infante, F.; Dellinger, J.D. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1985. v. 46 (6). p. 1263-1267. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Elimination of sulfamethazine residues from swine (to prevent illegal residues in the meat).

Samuelson, G. Whipple, D.M. Schaumburg, Ill., American Veterinary Medical Association. Journal. American Veterinary Medical Association. Sept 1, 1979. v. 175 (5). p. 449-452. ill. 13 ref. (NAL Call No.: 41.8 AM3).

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MUCBA. Meyerholz, G.W. Gaskin, J.M. East Lansing, Mich. : The Service. Extension bulletin E - Cooperative Extension Service, Michigan State University. Feb 1987. (1595). 2 p. (NAL Call No.: DNAL 275.29 M58B).

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Feed additives for swine (Antibiotics, chemotherapeutics, anthelmintics).

Whiteker, M.D. Hays, V.W. Stillwater, Okla., Cooperative Extension Service, Oklahoma State University. Pork industry handbook. PIH. May 1979. May 1979. (31). 4 p. (NAL Call No.:

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Wills, F.K. POUDA. Mount Morris : Watt Publishing Company. Poultry digest. Sept 1983. v. 42 (499). p. 452, 454. ill. (NAL Call No.: 47.8 N219).

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McNaughton, C.L. Lawrenceville, N.J. : Veterinary Learning Systems Company. The Compendium on continuing education for the practicing veterinarian. Oct 1988. v. 10 (10). p. 1233-1239. (NAL Call No.: DNAL SF601.C66).

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Hematologic and serum biochemical alterations associated with multiple halothane anesthesia exposures and minor surgical trauma in horses.

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Peritoneal lavage catheters were inserted in 3 control ponies, but lavage fluids were not administered. Peritoneal fluid specimens were collected at 6, 24, 48, and 96 hours after lavage. Nucleated cell counts, RBC counts, total protein determinations, and cytologic analysis were performed. The ponies were euthanatized at 96 hours, and representative sections of the peritoneum were examined. Lavage with saline solution and saline solution with antibiotics induced a mild, transient inflammatory response in the peritoneal fluid, with minimal or no changes observed at necropsy. Solutions containing povidone-iodine induced chemical peritonitis, which was severe in ponies lavaged with 10% povidone-iodine solutions. Peritoneal lavage with povidone-iodine solutions as dilute as 3% cannot be accomplished without causing inflammation of peritoneal surfaces. American journal of veterinary research. June 1988. v. 49 (6). p. 889-894. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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PCBPB. Farage-Elawar, M. Ehrich, M.F.; Jortner, B.S.; Misra, H.P. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. Nov 1988. v. 32 (3). p. 262-268. Includes references. (NAL Call No.: DNAL SB951.P49).

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Effects of offering different amounts and types of supplemental feeds to growing dairy steers fed endophyte-infected fescue hay ad libitum on intake, digestion, passage rate and serum prolactin concentration.

JANSAG. Goetsch, A.L. Jones, A.L.; Beers, K.W.; Stokes, S.R.; Piper, E.L. Champaign, Ill. : American Society of Animal Science. Journal of animal science. June 1987. v. 64 (6). p. 1769-1778. Includes references. (NAL Call No.: DNAL 49 J82).

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Effects of prochloraz on drug metabolism in the Japanese quail, Grey partridge, chicken, and pheasant.

AECTCV. Riviere. J.L. Bach, J.; Grolleau, G. New York, N.Y. : Springer-Verlag. Archives of environmental contamination and toxicology. May 1985. v. 14 (3). p. 299-306. Includes references. (NAL Call No.: DNAL TD172.A7).

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Effects of purified aflatoxin on broiler chickens.

POSCAL. Giambrone, J.J. Diener, U.L.; Davis, N.D.; Panangala, V.S.; Hoerr, F.J. Champaign, Ill. : Poultry Science Association. Poultry science. May 1985. v. 64 (5). p. 852-858. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

(VETERINARY PHARMACOLOGY, TOXICOLOGY AND IMMUNE THERAPEUTIC AGENTS)

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Effects of social stress on the toxicity of malathion in young chickens.

AVDIA. Brown, C. Gross, W.B.; Ehrich, M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1986. v. 30 (4). p. 679-682. Includes references. (NAL Call No.: DNAL 41.8 AV5).

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Effects of some calcium modulators on monensin toxicity.

VHTOD. Mitema, E.S. Sangiah, S.; Martin, T. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Oct 1988. v. 30 (5). p. 409-413. Includes references. (NAL Call No.: DNAL SF601.A47).

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Effects of vaccination of calves against induced *Haemophilus somnus* pneumonia.

AJVRAH. Groom, S.C. Little, P.B. Schaumburg, Ill. : American Veterinary Medical Association. Abstract: The efficacy of a killed whole-cell *Haemophilus somnus* bacterin against induced *H. somnus* pneumonia was examined in 10-week-old male calves. Twenty calves were assigned to 1 of the 3 following groups: group 1, nonvaccinated controls (n = 4); group 2, vaccinated once (n = 8); and group 3, vaccinated twice 14 days apart (n = 8). The serum antibody response to vaccination and challenge exposure was evaluated by the bacterial agglutination test and solid-phase immunoassay (SPIA). Vaccinating calves twice, 14 days apart, significantly (P less than 0.05) reduced the severity of clinical signs of pneumonia and gross lesions. Deaths occurred in 1 of 4 non-vaccinated controls, 1 calf vaccinated once, and none of the calves vaccinated twice, 14 days apart. Postvaccination bacterial agglutination titers measured 14 days after the final vaccination were not significantly different between groups 2 and 3, but SPIA titers were significantly (P less than 0.05) higher in groups 2 and 3, compared with those in group 1. The less severe clinical signs of pneumonia observed in group-3 calves, compared with those in calves in groups 1 and 2, were significantly (P less than 0.01) correlated to higher SPIA titers, indicating the protective value of vaccinating twice. American journal of veterinary research. June 1988. v. 49 (6). p. 793-800. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Efficacy of bio-cox, 3-nitro-10 and baciferm-50 combinations fed to broiler chickens in a floor pen study.

OKAMA. Smith, M.O. Teeter, R.G. Stillwater : The Station. Annual report - Oklahoma Agricultural Experiment Station. May 1985.

(MP-117). p. 349-352. (NAL Call No.: DNAL 100 OK4).

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Efficacy of *Corynebacterium pseudotuberculosis* bacterin for the immunologic protection of sheep against development of caseous lymphadenitis.

AJVRAH. LeaMaster, B.R. Shen, D.T.; Gorham, J.R.; Leathers, C.W.; Wells, H.D. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. May 1987. v. 48 (5). p. 869-872. Includes references. (NAL Call No.: DNAL 41.8 AM3A).ces. (NAL Call No.: DNAL 41.8 AM3A).

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Efficacy of febantel against abomasal nematodes and lungworms in cattle.

AJVRAH. Williams, J.C. Marbury, K.S.; Eddi, C.S.; Willis, E.R.; Luther, D.G. Schaumburg, Ill. : American Veterinary Medical Association. The efficacy of febantel at a dosage of 5 mg/kg (45.5% paste formulation) against inhibited early 4th-stage larvae (EL4) of *Ostertagia ostertagi*, other nematodes of the abomasum, and *Dictyocaulus viviparus* was investigated in 4- to 6-month-old Holstein calves that grazed on pasture heavily contaminated with parasites from February 24 to April 1, 1986 (36 days). In Louisiana, this is the first month of a 3-month period in which increasing numbers of inhibition-prone *O. ostertagi* larvae are acquired, and infection risk with *D. viviparus* may remain high. Three of 4 calves that died of lungworm infection during the pasture-exposure period were necropsied. Large numbers of abomasal nematodes, including inhibited *O. ostertagi* larvae, and large numbers of *D. viviparus* were recovered. Twenty-five calves were randomly allotted by equal distribution of body weight to 2 groups and treated on April 4: placebo-treated calves (n = 13) and febantel-treated calves (n = 12). Equal numbers of treated and control calves were killed at 6 and 7 days, respectively, after treatment. Mean numbers of *O. ostertagi* in control cattle were: adults, 4,931; developing 4th-stage larvae (DL4), 1,119; and inhibited EL4, 3,410. *Ostertagia lyrata*, *Trichostrongylus axei*, *Haemonchus* sp, and *D. viviparus* were well distributed in nearly all control calves. Percentage reduction of *O. ostertagi* in treated calves, when compared with controls, was: adults, 83.6%; DL4, 57.8%; and inhibited EL4, 34.8%. Percentage reductions of other species were: *O. lyrata*, 92.6%; *T. axei* adults, 99.3%, and 4th-stage larvae (L4), 100%; *Haemonchus* sp adults, 66.7%, and L4, 64%; *viviparus* adults 90.6%, and immature forms, 97.1%. It was concluded that the poor efficacy against adults of *Haemonchus* sp and *O. ostertagi* may have been attributable to the high numbers of DL4 and FL4 of both species. In the 6- to 7-day interval between treatment and slaughter, the DL4 could have reached the adult stage and replaced adults lost through treatment. American journal of veterinary research. Dec 1988. v. 49 (12).

p. 2085-2089. Includes referen

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Efficacy of ivermectin in the oral paste formulation against naturally acquired adult and larval stages of *Parascaris equorum* in pony foals.

AJVRAH. French, D.D. Klei, T.R.; Taylor, H.W.; Chapman, M.R.; Wright, F.R. Schaumburg, Ill. : American Veterinary Medical Association. The efficacy of ivermectin in oral paste formulation at a dosage of 200 micrograms/kg of body weight was tested against naturally acquired larval and adult stages of *Parascaris equorum*, in a controlled study. Twenty infected pony foals 18 to 27 weeks of age were randomly allocated to 2 groups of 10 each and were placed in dry lots. Foals in 1 group were given ivermectin on day 0. Necropsies and parasite recoveries from small intestines and lung tissues were performed on 5 foals in each group at 2 weeks after treatment (WAT) and on the remaining foals at 5 WAT. Ivermectin was 100% effective against adult *P. equorum*. At 2 WAT, ivermectin was 100% effective against lung larval stages and 91% effective against intestinal larvae of *P. equorum*. Efficacy of ivermectin against all intestinal stages was 93%. Intestinal and lung larval populations were similar in ivermectin-treated and nontreated foals at 5 WAT, indicating that the foals had become reinfected from the contaminated drylots, with larvae repopulating in the tissues 2 to 5 WAT. Apparent increases in severity of lymphoproliferative and inflammatory tissue reactions were observed histologically in lung and liver tissues of treated foals. Clear differences in clinical conditions between foals in treated and nontreated groups were not observed. However, weight gains in foals were greatest after treatment. American journal of veterinary research. July 1988. v. 49 (7). p. 1000-1003. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Efficacy of maduramicin against ionophore-tolerant field isolates of coccidia in broilers.

AVDIA. McDougald, L.R. Wang, G.T.; Kantor, S.; Schenkel, R.; Quarles, C. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1987. v. 31 (2). p. 302-308. Includes references. (NAL Call No.: DNAL 41.8 AV5).. p. 2090-2093. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Efficacy of morantel sustained-release bolus in control of gastrointestinal nematodes of weaned calves during the autumn-winter grazing season.

AJVRAH. Stuedemann, J.A. Ciordia, H.; Walstrom, D.J.; McCampbell, H.C. Schaumburg, Ill. : American Veterinary Medical Association. A

168-day study was conducted to evaluate the efficacy of morantel tartrate sustained-release bolus (MSRB) in controlling gastrointestinal parasitism in weaned calves during autumn-winter grazing in the temperate climate of southern United States. Sixty-two weanling Angus heifers were used to assess treatment differences. Six sentinel heifers were necropsied to assess pretreatment gastrointestinal worm counts. The remaining 56 heifers were assigned to 4 groups of 14 heifers each and were placed on four 4.86-hectare dormant Bermuda grass pastures (1 group/pasture) that had been no-till interseeded with cereal rye in early October. Heifers in 2 groups were given 1 MSRB in early November; the other 2 groups served as nonmedicated controls. Three heifers (principals) from each of the 4 groups were necropsied on posttreatment days 57, 112, and 168 (end of study) for total worm recovery. Eight 5-month-old tracer steers, raised worm-free from birth, grazed the 4 pastures (2/pasture) for the first 21 days of the study and then were kept in drylot for 21 days before being necropsied. Level of larval contamination of pastures grazed by control and MSRB-treated heifers were comparable, because the mean number of nematodes recovered from tracer steers grazing the control and MSRB pastures were 47,449 and 53,835, respectively. At 28 days after treatment, MSRB-treated heifers had lower ($P < 0.05$) mean egg counts/g of feces than did control heifers (280 vs 13). Although the magnitude of the differences between treated and control heifers decreased as the study progressed, the differences were significant ($P < 0.05$) at each sampling date throughout the 168-day study. Necropsy of 6 sentinels revealed a mean nematode count of 43,135. Necropsy of principal heifers revealed higher mean worm counts in control heifers, compared with those in MSRB-treated heifers on day 57 (35,758 vs 2,113; $P < 0.05$), 112 (20,740 vs 13,764; $P = 0.15$), and 168 (27,252 vs 6,957; $P < 0.05$). There were no differences. American journal of veterinary research. Dec 1988. v. 49 (12)

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The efficacy of Stenorol (Halofuginone, Hoechst-Roussel Agri-Vet Company) versus ionophorous anticoccidials in various dietary contexts and drinker systems.

39EJA. Hanssens, Q.J. Davis : University of California. Proceedings - Western Poultry Disease Conference. 1987. (36th). p. 60-62. Includes references. (NAL Call No.: DNAL SF995.W4).

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Elimination of ¹⁴C heptachlor from body stores of lactating ewes treated with ovine growth hormone.

JANSAG. Holcombe, D.W. Smith, G.S.; Khan, M.F.; Hallford, D.M.; Rozman, K. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Sept 1988. v. 66 (9). p. 2200-2208. Includes references. (NAL Call No.:

DNAL 49 J82).

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Embryo vaccination of specific-pathogen-free chickens with infectious bursal disease virus: tissue distribution of the vaccine virus and protection of hatched chickens against disease.
AVDIA. Sharma, J.M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1986. v. 30 (4). p. 776-780. Includes references. (NAL Call No.: DNAL 41.8 AV5).

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Emergence of antibiotic-resistant Salmonella agona in horses in Kentucky.
JAVMA4. Donahue, J.M. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Mar 15, 1986. v. 188 (6). p. 592-594. Includes 17 references. (NAL Call No.: DNAL 41.8 AM3).

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Endometrial levels of amikacin in the mare after intrauterine infusion of amikacin sulfate (Aminoglycoside antibiotic, equine metritis).
Caudle, A.B. THGNB. Purswell, B.J.; Williams, D.J.; Brooks, P.; Rourke, J.E. Los Altos : Geron-X. Theriogenology. Mar 1983. v. 19 (3). p. 433-439. ill. Includes references. (NAL Call No.: QP251.A1T5).

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Endotoxemia in horses: Protection provided by antiserum to core lipopolysaccharide.
AJVRAH. Morris, D.D. Whitlock, R.H.; Corbeil, L.B. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Mar 1986. v. 47 (3). p. 544-550. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Equine leukoencephalomalacia (moldy corn poisoning).
Siegel, A. Wilson, D.A.; Shivaprasad, H.L. Urbana : University of Illinois, College of Veterinary Medicine. Veterinary professional topics : horse. Equine professional topics. 1984. v. 10 (4). p. 6-8. (NAL Call No.: DNAL SF601.E6).

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Equine leukoencephalomalacia associated with the ingestion of commercial pelleted and nonpelleted horse rations: preliminary findings.
PAMDD. Wilson, T.M. Nelson, P.E.; Rayn, T.B.; Rouse, C.D.; Pittman, C.W.; Neal, T.P.; Porterfield, M.L.; Saunders, G.K. Madison, Wis. : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. 1985. (28th). p. 103-110. Includes 15 references. (NAL Call No.: DNAL SF771.A53A).

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Equine uterine cultures: technique and aerobic bacteriological evaluation. II.
Messick, J.B. Lawrenceville, N.J. : Veterinary Learning Systems Co. Veterinary technician. July/Aug 1982. v. 3 (4). p. 203-210. ill. Includes references. (NAL Call No.: DNAL SF406.A5).

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Evaluating mastitis in the dairy herd.
Bowers, K.A. Lawrenceville, N.J. : Veterinary Learning Systems Co. Veterinary technician. July/Aug 1982. v. 3 (4). p. 187-191, 194. ill. Includes references. (NAL Call No.: DNAL SF406.A5).

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Evaluating the effects of mycotoxicosis in finishing swine.
Dykes, M.D. Lenexa, Kan. : Veterinary Medicine Publishing Co. Veterinary medicine. Feb 1986. v. 81 (2). p. 182-183. Includes references. (NAL Call No.: DNAL 41.8 M69).

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Evaluation of immunity of young broiler chickens during simultaneous aflatoxicosis and ochratoxicosis.
Campbell, M.L. Jr. POSCA. May, J.D.; Huff, W.E.; Doerr, A. Champaign : Poultry Science Association. Poultry science. Nov 1983. v. 62 (11). p. 2138-2133. Includes references. (NAL Call No.: 47.8 AM33P).

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Evaluation of inactivated Mycoplasma gallisepticum oil-emulsion bacterins for protection against airsacculitis in broilers (Chicks).
Yoder, H.W. Jr. Hopkins, S.R.; Mitchell, B.W. Kennett Square : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1984. v. 28 (1). p. 224-234. Includes references. (NAL

Call No.: 41.8 AV5).

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Evaluation of pesticide effects on humoral response to sheep erythrocytes and mouse hepatitis virus 3 by immunosorbent analysis.
PCBPB. Fournier, M. Bernier, J.; Flipo, D.; Krzystyniak, K. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. Dec 1986. v. 26 (3). p. 353-364. Includes 29 references. (NAL Call No.: DNAL SB951.P49).

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Evaluation of protection against colonization of the chicken trachea following administration of Mycoplasma gallisepticum bacterin.
AVDIA. Talkington, F.D. Kleven, S.H. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1985. v. 29 (4). p. 998-1003. Includes 13 references. (NAL Call No.: DNAL 41.8 AV5).

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Evaluation of protection against Mycoplasma gallisepticum infection in chickens vaccinated with the F strain of M. gallisepticum.
AVDIA. Cummings, T.S. Kleven, S.H. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1986. v. 30 (1). p. 169-171. Includes references. (NAL Call No.: DNAL 41.8 AV5).

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Excretion of deoxynivalenol and its meabolite in milk, urine, and feces of lactating dairy cows.
JDSCAE. Cote, L.M. Dahlem, A.M.; Yoshizawa, T.; Swanson, S.P.; Buck, W.B. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Sept 1986. v. 69 (9). p. 2416-2423. ill. Includes references. (NAL Call No.: DNAL 44.8 J822).

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Experimental cantharidiasis in the horse.
AUJRAH. Shawley, R.V. Rolf, L.L. Jr. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Literature review. Nov. 1984. v. 45 (11). p. 2261-2266. Includes 57 references. (NAL Call No.: DNAL 41.8 AM3A).

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Experimental induction of chronic aflatoxicosis in chickens by purified aflatoxin B1 and its reversal by activated charcoal, phenobarbital, and reduced glutathione.

Dalvi, R.R. McGowan, C. Champaign : Poultry Science Association. Poultry science. Mar 1984. v. 63 (3). p. 485-491. Includes references. (NAL Call No.: 47.8 AM33P).

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Experimental infection and protection of lambs with a minute plaque variant of rift valley fever virus.

AJTHA. Moussa, M.I. Abdel-Wahab, K.S.E.; Wood, D.L. Lawrence : Allen Press. The American journal of tropical medicine and hygiene. May 1986. v. 35 (3). p. 660-662. Includes references. (NAL Call No.: DNAL 448.8 AM326).

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Experimentally induced pneumonic pasteurellosis: dose-response relationships and protection against natural reinfection in calves.

AJVRH. Hilwig, R.W. Songer, J.G.; Reggiardo, C. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Dec 1985. v. 46 (12). p. 2585-2587. Includes 7 references. (NAL Call No.: DNAL 41.8 AM3A).

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Nolan, M.P. Roberson, E.L. Ames, Iowa : Iowa State University Press, 1988. Veterinary pharmacology and therapeutics / edited by Nicholas H. Booth, Leslie E. McDonald. p. 969-999. Includes references. (NAL Call No.: DNAL SF915.J6 1988).

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Factors affecting microbial competitive exclusion in poultry.

FOTEA. Bailey, J.S. Chicago, Ill. : Institute of Food Technologists. Abstract: A technical review attempts to: (1) define factors that affect both the colonization of chickens with salmonellae and the nature and effectiveness of individual competitive-exclusion (CE) cultures (i.e., anaerobic cultures of normal intestinal adult fowl flora); and (2) show how these factors can be controlled so that the CE concept can be practically applied to reduce salmonellae contamination. Specific attention is given to factors that affect the development of an effective CE flora (CE culture source, culture conditions, minimum culture, storage, and treatment) and the susceptibility of chickens to intestinal colonization with paratyphoid salmonellae (chick age, stress, and

coccidiosis). The use and effectiveness of antimicrobials also are discussed, and the choice of CE as the best alternative for reducing salmonellae in poultry is highlighted.(wz). Food technology. Based on paper presented at IFT Food Microbiology Div Prog, "Foodborne disease as influenced by colonization control of enteropathogens in poultry and livestock," at anl mtg of Inst of Food Tech, June 16-18, 1987, Las Vegas, NV. July 1987. v. 41 (7). p. 88-92. charts. Includes 57 references. (NAL Call No.: DNAL 389.8 F7398).

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Fate of aflatoxins in tissues, fluids, and excrements from cows dosed orally with aflatoxin B1.

Stubblefield, R.D.AJVRA. Pier, A.C.; Richard, J.L.; Shotwell, O.L. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Sept 1983. v. 44 (9). p. 1750-1752. Includes references. (NAL Call No.: 41.8 AM3A).

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Fate of 14C deltamethrin in lactating dairy cows.

JAFCAU. Akhtar, M.H. Hartin, K.E.; Trenholm, H.L. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1986. v. 34 (4). p. 753-758. Includes references. (NAL Call No.: DNAL 381 J8223).

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POSCAL. Burditt, S.J. Hagler, W.M. Jr.; Hamilton, P.B. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1984. v. 63 (11). p. 2172-2174. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Feed refusal in swine fed ochratoxin-contaminated grain sorghum: evaluation of toxicity in chicks.

JAVMA. Harvey, R.B. Kubena, L.F.; Lawhorn, D.B.; Fletcher, O.J.; Phillips, T.D. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Mar 15, 1987. v. 190 (6). p. 673-675. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Feeding trials with vomitoxin (deoxynivalenol)-contaminated wheat: effects on swine, poultry, and dairy cattle (Toxicity, residues).

Trenholm, H.L. Hamilton, R.M.G.; Friend, D.W.; Thompson, B.K.; Hartin, K.E. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Sept 1, 1984. v. 185 (5). p. 527-531. ill. Includes 27 references. (NAL Call No.: 41.8 AM3).

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Floor-pen trials with Maduramicin ammonium (Cygro) and Salinomycin (Sacox, Coccistac).

Badstue, P.B. Johansen, J. Athens, Georgia? : University of Georgia, Dept. of Poultry Science, 1986. Research in avian coccidiosis : proceedings of the Georgia Coccidiosis Conference, November 19-21, 1985 / edited by Larry R. McDougald, Leonard P. Joyner, Peter L. Long. p. 279-284. Includes references. (NAL Call No.: DNAL SF792.G4 1985).

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Fowl cholera: protection against Pasteurella multocida by Ribosome-Lipopolysaccharide vaccine.

AVDIA. Rimler, R.B. Phillips, M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1986. v. 30 (2). p. 409-415. Includes 21 references. (NAL Call No.: DNAL 41.8 AV5).

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Furazolidone-induced congestive cardiomyopathy in ducklings: lack of protection from selenium, vitamin E, and taurine supplements.

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Fusariotoxicooses of farm animals and mycotoxic leucoencephalomalacia of the equine associated with the finding of trichothecenes in feedstuffs.

VHTOD. Gabal, M.A. Awad, Y.L.; Morcos, M.B.; Barakat, A.M.; Malik, G. Manhattan, Kan. :

American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. June 1986. v. 28 (3). p. 207-212. Includes 31 references. (NAL Call No.: DNAL SF601.A47).

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JAVMA. Parkhie, M.R. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Aug 1, 1986. v. 189 (3). p. 270-271. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Heavy metals in fluids and tissues of fetal calves and in young calves of nursing cows exposed or not exposed to anaerobically digested wastewater sludge.
AJVRAH. Fitzgerald, P.R. Peterson, J.; Lue-Hing, C. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Jan 1985. v. 46 (1). p. 165-168. Includes 7 references. (NAL Call No.: DNAL 41.8 AM3A).

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Hematologic and immunologic responses of Holstein calves to a fire ant toxicant (AMDRO).
Evans, D.L. Jacobsen, K.L.; Miller, D.M. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. May 1984. v. 45 (5). p. 1023-1027. Includes references. (NAL Call No.: 41.8 AM3A).

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Hemodynamics, plasma eicosanoid concentrations, and plasma biochemical changes in calves given multiple injections of Escherichia coli endotoxin.
AJVRAH. Templeton, C.B. Bottoms, G.D.; Fessler, J.F.; Turek, J.J. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Jan 1988. v. 49 (1). p. 90-95. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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JAVMA. Putnam, M.R. Qualls, C.W.; Rice, L.E.; Dawson, L.J.; Edwards, W.C. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. July 1, 1986. v. 189 (1). p. 77-82. Includes 6 references. (NAL Call No.: DNAL 41.8 AM3).

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Heptachlor contamination of dairy, beef, and swine: the experience in Missouri.
PAMDD. Raisbeck, M.F. Rottinghaus, G.E.; Satalowich, F.T.; Coats, L.; Steevens, B.; Ricketts, R. Madison, Wis. : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. Literature review. 1986. (29th). p. 161-182. Includes references. (NAL Call No.: DNAL SF771.A53A).

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Heptachlor contamination of livestock and poultry /prepared by Arthur L. Craigmill.
Craigmill, Arthur L. Davis, Calif.? : USDA Extension Service Heptachlor Residue Education Task Force?, 198-?. Caption title.~ "A cooperative effort of the members of the USDA Extension Service Heptachlor Residue Education Task Force chaired by Arthur L. Craigmill"--P. 6. 6 leaves : ill. ; 28 cm. (NAL Call No.: DNAL aQP801.P38C72).

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BECTA. Kozloski, R.P. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. June 1986. v. 36 (6). p. 815-818. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

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OKAMA. Goetsch, A.L. Owens, F.N.; Poling, K.B. Stillwater : The Station. Annual report - Oklahoma Agricultural Experiment Station. May 1985. (MP-117). p. 308-314. Includes references. (NAL Call No.: DNAL 100 DK4).

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COVEA. Perdrizet, J.A. Cummings, J.F.; De Lahunta, A. Ithaca, N.Y. : Cornell Veterinarian, Inc. Cornell veterinarian. July 1985. v. 75 (3). p. 401-410. ill. Includes 19 references. (NAL Call No.: DNAL 41.8 C81).

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AJVRAH. Boisvenue, R.J. Galloway, R.B.; Hendrix, J.C. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Aug 1987. v. 48

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AJVRH. Marchioli, C. Yancey, R.U. Jr.; Timmins, J.G.; Post, L.E.; Young, B.R.; Povendo, D.A. Schaumburg, Ill. : American Veterinary Medical Association. Abstract: Hybridomas were selected for secretion of monoclonal antibodies directed against pseudorabies virus (PRV) glycoproteins. Each monoclonal antibody was capable of neutralizing PRV in vitro in the presence of complement. This panel of antibodies was used in passive immunization studies to protect mice and swine from PRV-induced mortality. The most protective antibody in mice was 3A4, specific for PRV glycoprotein gp50, which afforded as high as 100% protection. Although antibody 3A4 was partially protective in swine, antibody 3D11, which is specific for PRV glycoprotein gIII, afforded greater protection-83% protection when ascitic fluid was used and 100% protection when immunoglobulin concentrated from cell cultures was used at a dose of 150 mg/pig. These studies demonstrated that monoclonal antibodies may be useful for short-term prophylaxis against PRV-induced disease and that antibody directed against either PRV glycoprotein gIII or gp50 is sufficient to protect animals from PRV-induced mortality. American journal of veterinary research. June 1988. v. 49 (6). p. 860-864. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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OKAMA. Smith, R.A. Hicks, R.B.; Gill, D.R.; Ball, R.L. Stillwater : The Station. Miscellaneous publication - Agricultural Experiment Station, Oklahoma State University. May 1986. (118). p. 269-272. Includes references. (NAL Call No.: DNAL 100 OK4 (3)).

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AJVRAH. Schneider, R.K. Meyer, D.J.; Embertson, R.M.; Gentile, D.G.; Buergelt, C.D. Schaumburg, Ill. : American Veterinary Medical Association. Abstract: Peritoneal lavage was performed on ponies to determine the effect on peritoneal surfaces. Lavage solution (20 L) was introduced into each pony's peritoneal cavity through catheters placed in the paralumbar fossa, and the solution was removed by drainage from the ventral portion of the abdomen. Six ponies each were lavaged with sterile saline (0.9% NaCl) solution, sterile saline solution containing 5 X 10⁶ U of potassium penicillin and 3 g of neomycin or povidone-iodine diluted to 3% by volume with sterile saline solution, and 3 ponies were lavaged with povidone-iodine diluted to 10% with sterile saline solution. Peritoneal lavage catheters were inserted in 3 control ponies, but lavage fluids were not administered. Peritoneal fluid specimens were collected at 6, 24, 48, and 96 hours after lavage. Nucleated cell counts, RBC counts, total protein determinations, and cytologic analysis were performed. The ponies were euthanatized at 96 hours, and representative sections of the peritoneum were examined. Lavage with saline solution and saline solution with antibiotics induced a mild, transient inflammatory response in the peritoneal fluid, with minimal or no changes observed at necropsy. Solutions containing povidone-iodine induced chemical peritonitis, which was severe in ponies lavaged with 10% povidone-iodine solutions. Peritoneal lavage with povidone-iodine solutions as dilute as 3% cannot be accomplished without causing inflammation of peritoneal surfaces. American journal of veterinary research. June 1988. v. 49 (6). p. 889-894. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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VHTOD. Shlosberg, A. Weisman, Y.; Handji, V. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Oct 1984. v. 26 (5). p. 384-386. Includes 14 references. (NAL Call No.: DNAL SF601.A47).

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JEENAI. Matthyse, J.G. McClain, D. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1973. v. 66 (4). p. 927-933. ill. Includes references. (NAL

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Horton, D.L. Sheppard, D.C.; Nolan, M.P. Jr. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Apr 1985. v. 2 (2). p. 196-199. Includes references. (NAL Call No.: DNAL SB599.J69).

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DHMG. Wilson, M. Seykora, T. Minneapolis : Miller Publishing Co. Dairy herd management. May 1985. v. 22 (5). p. 23-24. ill. (NAL Call No.: DNAL SF191.D3).

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Impact of cattle grub (Hypoderma spp.) (Diptera: Oestridae) infestations on performance of beef cattle.

JEENAI. Scholl, P.J. Hironaka, R.; Weintraub, J. Lanham, Md. : Entomological Society of America. Forty-five weaned Angus steer calves, *Bos taurus*, were obtained from a ranch at the interface between a large area (southern Alberta, Canada) with a history of several years' treatment with systemic insecticides for cattle grubs, *Hypoderma lineatum* (Villers) and *Hypoderma bovis* (L.), and an area where there had been treatment for only 1 yr. Thus, we expected that these animals would receive different levels of cattle grub infestation pressure and have different numbers of encysted larvae. The steers were not exposed to systemic insecticides; they were evaluated for the effects of the cattle grubs on performance. Peak numbers of cattle grubs that appeared in the backs of these animals ranged from 2 to 39. The influence of level of cattle grub infestation on the performance of these steers during the period when the larvae were migrating to and emerging from the animals' backs did not influence the steers' rate of gain, feed intake, or feed-to-gain ratio. The entire growth period from weaning to slaughter was divided and analyzed as three distinct periods: the period before the cattle grubs appeared in the animals' backs, the period when cattle grubs were present in the warbles, and the period following drop-out of cattle grubs.

In addition, cattle grub infestation did not influence carcass grade, backfat thickness, marbling score, or rib eye area when steers were slaughtered 13 wk after the last cattle grub had emerged. Results suggest that relatively low numbers of cattle grubs did not produce measurable effects on performance of cattle that were placed on feed as soon as 15 wk before *Hypoderma* spp. encystment. Journal of economic entomology. Feb 1988. v. 81 (1). p. 246-250. Includes references. (NAL Call No.: DNAL 421 J822).

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Poinar, G.O. Jr. Thomas, G.M.; Presser, S.B.; Hardy, J.L. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1982. v. 11 (1). p. 137-138. Includes 4 ref. (NAL Call No.: QL461.E532).

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McBride, Dean K. Kopp, Dennis D. 1978. This publication includes a table of the poultry pest, insecticide, dosage, and treatment for the bird itself, building, and roost paint. Document available from: Dept. of Ag. Communications, North Dakota State University, Fargo, ND 58105. 1 sheet. (NAL Call No.: Not available at NAL.). (NAL Call No.: E498).

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Insect control on poultry--1987.

Christensen, C.M. Lexington : The Service. ENT - University of Kentucky, College of Agriculture, Cooperative Extension Service. Dec 1986. (28). 3 p. (NAL Call No.: DNAL 275.29 K415E).

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Insect control on swine--1987.

Christensen, C.M. Lexington, Ky. : The Service. ENT - University of Kentucky, College of Agriculture, Cooperative Extension Service. Dec 1986. (23). 2 p. (NAL Call No.: DNAL 275.29 K415E).

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Insect pest of hogs.

McBride, Dean K. 1976. This publication includes the insecticides used for hog lice and mange, and the equipment needed. Document available from: Dept. of Ag. Communications, North Dakota State Univ., Fargo, ND 58105. 1 sheet. (NAL Call No.: E444).

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Christensen, C.M. KY. Lexington, Ky., The Service. ENT - University of Kentucky, Cooperative Extension Service. Oct 1979. Oct 1979. (23). 2 p. (NAL Call No.: 275.29 K415E).

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Insecticide suggestions to control livestock and poultry pests in 1980.

Lofgren, J.A. MN. Noetzel, D.M.; Harein, P.K.; Cutkomp, L.K. St. Paul, Minn., The Service. Extension folder - Agricultural Extension Service, University of Minnesota. Minnesota. University. Agricultural Extension Service. 1980. 1980. (413). 6 p. (NAL Call No.: 275.29 M66EX).

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Laboratory evaluation of insecticides for control of adult and larval hide beetles, Dermestes maculatus degeer, from poultry houses.

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GENSAB. Crystal, M.M. DeMilo, A.B. Athens, Ga. : The Society. Journal of the Georgia Entomological Society. Oct 1984. v. 19 (4). p. 517-523. ill. Includes references. (NAL Call No.: DNAL QL461.G4).

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Larvadex insecticide banned in Georgia (Poultry).

Atlanta, Ga. : Department of Agriculture. Farmers & consumers market bulletin. July 18, 1984. v. 70 (29). p. 1, 16. (NAL Call No.: 280.39 G292).

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Mock, D.E. Manhattan, Kan. : The Service. C - Kansas State University, Cooperative Extension Service. Apr 1986. (676). 8 p. Includes references. (NAL Call No.: DNAL 275.29 K13EX).

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Livestock insect control recommendations.

Brooks, Leroy. Gates, Dell E.; Benitz, Jill. 1979. First this publication discusses the use of insecticides, then it discusses the control of insects on beef, dairy, sheep, and swine. It also has a section on feed through insecticides. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 19 p. (NAL Call No.: C419).

1477

Livestock insecticide ear tag trials--1982.

NDFRA. Koop, D.D. Meyer, H.J. Fargo, N.D. : The Station. North Dakota farm research - North Dakota, Agricultural Experiment Station. May/June 1983. v. 40 (6). p. 19-21. Includes references. (NAL Call No.: DNAL 100 N813B).

1478

Manure management as a means of controlling filth flies at agricultural installations.

FETMA. Morgan, P.B. Patterson, R.S.; Propp, G.D. Gainesville, Fla. : Florida Entomological Society. Florida entomologist. May 1988. v. 71 (1). p. 44-49. Includes references. (NAL Call No.: DNAL 420 F662).

1479

New fly control insecticide (Atroban (permethrin), poultry houses, (Fannia), house (Musca) stable (Stomoxys), and false stable (Muscina)).

Kuney, D.R. Berkeley, Calif., The Extension. California poultry letter - University of California, Cooperative Extension. Dec 1979. Dec 1979. p. 1-3. ill. (NAL Call No.: SF481.C3).

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Northern fowl mite control (Poultry pests, pesticides).

Price, F.C. Berkeley, Calif., The Extension. California poultry letter - University of California, Cooperative Extension. Mar 1979. Mar 1979. p. 1-3. (NAL Call No.: SF481.C3).

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Pesticides for poultry and poultry buildings.

Lyon, William F. 1981. This publication includes tables of pests and how to apply the correct pesticide. Also, a list of Ohio poison control centers is given. Document available from: Ext. Office of Information, Ohio State University, 2120 Fyffe Road, Columbus, OH 43210. 7 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: L256).

1482

Physiological response of Grub-infested (Diptera: Oestridae) and grub-free steers to treatments of systemic insecticides.

JEENAI. Schwinghammer, K.A. Knapp, F.W.; Boling, J.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1985. v. 78 (1). p. 96-101. Includes references. (NAL Call No.: DNAL 421 J822).

1483

Poultry farm pest control.

Gojmerac, W.L. Madison, Wis. : The Research Division. Publication - Cooperative Extension Programs. University of Wisconsin - Extension. Dec 1985. (A2227). 4 p. ill. (NAL Call No.: DNAL S544.3.W6W53).

1484

Poultry pest control.

Noetzel, David M. Harein, Phillip K. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108 1981. This publication discusses the identification and control of specific insect pests that infest poultry. 1 sheet : ill. (NAL Call No.: Document available

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1485

Poultry pests and their control.

WUEXA. Antonelli, A.L. Andrews, D.K. Pullman, Wash. : The Service. Extension bulletin - Washington State University, Cooperative Extension Service. Subseries: Poultry pointers. Apr 1987. (O912,rev.). 3 p. (NAL Call No.: DNAL 275.29 W27P).

1486

Protect hogs from external parasites (Includes housefly control in confined hog operations).

Jones, B.F. Johnson, D.R. Little Rock : The Service. Leaflet EL - Arkansas University, Cooperative Extension Service. Mar 1983. Mar 1983. (388rev.). 6 p. ill. (NAL Call No.: 275.29 AR4LE).

1487

Rapid evaluation of candidate materials preliminary to in vivo testing for systemic control of northern fowl mites, Ornithonyssus sylviarum (Acari: Macronyssidae).

JMENA. Crystal, M.M. College Park, Md. : The Entomological Society of America. Journal of medical entomology. Sept 1987. v. 24 (5). p. 584-586. Includes references. (NAL Call No.: DNAL 421 J828).

1488

Residual activity of selected pesticides on laying hens treated for northern fowl mite control by dipping.

DeVaney, J.A. POSCA. Beerwinkle, K.R.; Ivie, G.W. Champaign : Poultry Science Association. Ornithonyssus sylviarum on laying hens, control by dipping, aqueous suspensions of malathion, stirofos, Ravap, and carbaryl tested for residual activity and toxicity. Poultry science. Aug 1982. v. 61 (8). p. 1630-1636. (NAL Call No.: 47.8 AM33P).

1489

Residual and topical toxicity of various insecticides to the lesser mealworm (Coleoptera:Tenebrionidae) (Alphitobius diaperinus, poultry, avian leukosis, stored products pest).

Vaughan, J.A. Turner, E.C. Jr. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 216-220. Includes references. (NAL Call No.: 421 J822).

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Residual treatments for house fly control in cement stanchion, automatic flush swine barns, 1981 (*Musca domestica*).

Quisenberry, S.S. Yoran, C.F. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 273. (NAL Call No.: SB950.A1I49).

1491

Residues of carbaryl and two of its metabolites in eggs of laying hens treated with Sevin for northern fowl mite control by dipping (*Ornithonyssus sylviarum*).

Ivey, M.C. POSCAL. Ivie, G.W.; Devaney, J.A.; Beerwinkle, K.R. Champaign : Poultry Science Association. Poultry science. Jan 1984. v. 63 (1). p. 61-65. Includes references. (NAL Call No.: 47.8 AM33P).

1492

Residues of stirofos (Rabon) in eggs of laying hens treated for northern fowl mite control by dipping (*Ornithonyssus sylviarum*).

Ivey, M.C. Devaney, J.A.; Ivie, G.W.; Beerwinkle, K.R. Champaign, Ill., Poultry Science Association. Poultry science. Mar 1982. v. 61 (3). p. 443-446. Includes 17 ref. (NAL Call No.: 47.8 AM33P).

1493

Resistance of the little house fly to insecticides on poultry facilities.

CAGRA. Meyer, J.A. Georgiou, G.P. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. May/June 1987. v. 41 (5/6). p. 22-24. ill. (NAL Call No.: DNAL 100 C12CAG).

1494

Screening of acaricides for control of one-host ticks, 1979 (*Cattle tick*, *Boophilus annulatus*, *Boophilus microplus*, horse tick, *Anocentor nitens*, *Dermacentor albipictus*).

Drummond, R.O. College Park : Entomological Society of America. Insecticide and acaricide tests. 1980. v. 5. p. 215-216. (NAL Call No.: SB950.A1I49).

1495

Sheep and goat insect pest control.

Coppock, S. Stillwater, Okla. : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Apr 1979. (7005,rev.). 2 p. (NAL Call No.: DNAL S544.3.0505).

1496

Sheep insect control guide.

Campbell, J. B. 1975. This publication discusses the insect pests of sheep, and a table on insecticides and their use. Document available from: Dept. of Ag. Communications, U of Nebraska, Lincoln, NE 61801. 3 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: G 74-119).

1497

Sheep ked control with pour-on applications of organophosphorus insecticides.

Lloyd, J.E. JEENA. Pfadt, R.E.; Kumar, R. College Park : Entomological Society of America. *Melophagus ovinus*, sheep, evaluation of pour-on applications of various organophosphorus insecticides for ked control, diazinon most effective: farms in southeastern Wyoming. Journal of economic entomology. Feb 15, 1982. v. 75 (1). p. 5-6. (NAL Call No.: 421 J822).

1498

Skin diseases in sheep (Chiefly caused by ticks, mites, lice).

Woodson, F.E. MVPRA. Truban, W.A.; Rockwood, K.H.; Lorenzen, J.; Bush, E.P. Santa Barbara : American Veterinary Publications. Modern veterinary practice. Apr 1983. v. 64 (4). p. 340-341. (NAL Call No.: 41.8 N812).

1499

The status of northern fowl mite research: how far have we come?

Lemke, L.A. Kissam, J.B. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Literature review. July 1986. v. 3 (3). p. 255-264. Includes references. (NAL Call No.: DNAL SB599.J69).

1500

Straight chain dimethyl amines and amides as acaricides for control of *Psoroptes* spp. (cause of scabies of cattle and sheep).

Wright, F.C. AR-SO-AR-NE. Riner, J.C.; Robbins, W.E. College Station, Tex., Southwestern Entomological Society. The Southwestern entomologist. Dec 1979. v. 4 (4). p. 278-281. ill. 16 ref. (NAL Call No.: QL461.S65).

1501

Studies on cyromazine and diflubenzuron in the sheep blowfly *Lucilia cuprina*: inhibition of vertebrate and bacterial dihydrofolate reductase by cyromazine.

PCBPB. Binnington, K.C. Retnakaran, A.; Stone, S.; Skelly, P. Duluth, Minn. : Academic Press.

Pesticide biochemistry and physiology. Feb 1987. v. 27 (2). p. 201-210. ill. Includes references. (NAL Call No.: DNAL SB951.P49).

1502

Survival of permethrin-susceptible, resistant, and F1 hybrid strains of *Haematobia irritans* (Diptera: Muscidae) on ear-tagged steers.
JEENAI. McDonald, P.T. Schmidt, C.D.; Fisher, W.F.; Kunz, S.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1987. v. 80 (6). p. 1218-1222. Includes references. (NAL Call No.: DNAL 421 J822).

1503

Susceptibility of northern fowl mites in North Carolina to five acaricides.
Arthur, F.H. POSCA. Axtell, R.C. Champaign : Poultry Science Association. Ornithonyssus sylvianus from North Carolina farms, susceptibility to malathion, coumaphos, carbaryl, tetrachlorvinphos, and permethrin, effect of temperature on effectiveness of permethrin; data show high resistance to malathion. Poultry science. Mar 1983. v. 62 (3). p. 428-432. (NAL Call No.: 47.8 AM33P).

1504

Use of age structure to assess insecticidal treatments of face fly populations, *Musca autumnalis* DeGeer (Diptera: Muscidae).
JEENAI. Krafur, E.S. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1984. v. 77 (6). p. 1364-1366. Includes references. (NAL Call No.: DNAL 421 J822).

1505

Use of insecticide-impregnated ear tags for control of sarcoptic mange mites on swine in Iowa.
Holscher, K. Busby, D.; Van Zee, B. Kansas City, Mo. : The Association. Proceedings of annual meeting - American Association of Swine Practitioners. Meeting held on March 16-18, 1986, Minneapolis, Minnesota. 1986. p. 65-69. (NAL Call No.: DNAL SF971.A44).

1506

The use of permethrin to control an outbreak of hen fleas (*Ceratophyllus gallinae*).
Titchener, R.N. POSCA. Champaign : Poultry Science Association. Poultry science. Apr 1983. v. 62 (4). p. 608-611. Includes references. (NAL Call No.: 47.8 AM33P).

1507

1981 recommendations for fly control on beef cattle.

Hall, Robert D. Jones, Flerney G. Document available from: University of Missouri, Extension Publications, 222 S. Fifth Street, Columbia, Missouri 65201 1981. This publication discusses controlling house flies, face flies, horn flies, stable flies, and horse and deer flies around cattle, and includes a table of insecticide recommendations. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: 7010).

1508

1984 insect pest management guide: Livestock and livestock barns.

Urbana, Ill. : Cooperative Extension Service, University of Illinois at Urbana-Champaign. Veterinary professional topics : cattle. 1983. v. 9 (4). p. 8-11. (NAL Call No.: DNAL SF961.V42).

1508A

Insecticide suggestions to control livestock and poultry pests in 1979.

Lofgren, J.A. Noetzel, D.M. St. Paul. Extension folder Minnesota. University. Agricultural Extension Service. 1979. (413). 6 p. ill. 5 ref. (NAL Call No.: 275.29 M66EX).

1508B

A method of evaluating acaricides for control of psoroptic mites (*Psoroptes ovis*, *Psoroptes cuniculi*, cause of scabies on sheep and cattle).

Wright, F.C. Riner, J.C. College Station, Tex., Southwestern Entomological Society. The Southwestern entomologist. Mar 1979. v. 4 (1). p. 40-45. ill. Bibliography p. 44-45. (NAL Call No.: QL461.S65).

1508C

1979 insecticide recommendations for swine.

Christensen, C.M. Lexington, Ky., The Service. ENT. Kentucky. University. Cooperative Extension Service. Dec 1978. Dec 1978. (23). 2 p. (NAL Call No.: 275.29 K415E).

1508D

Acaricides to control chicken ectoparasites (*Dermanyssus gallinae*, *Argas persicus*).

RUSSIAN.

Frolov, B.A. Kachekova, Sh. Moskva, "Kolos". Veterinariia. Nov 1978. Nov 1978. (11). p. 75-76. (NAL Call No.: 41.8 V6426).

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1509

Ascaris suum: protective immunity in pigs immunized with products from eggs and larvae.
EXPAA. Urban, J.F. Jr. Romanowski, R.D. New York : Academic Press. Experimental parasitology. Oct 1985. v. 60 (2). p. 245-254. ill. Includes references. (NAL Call No.: DNAL 436.8 EX7).

1510

Changes in periparturient fecal egg counts in beef cows calving in the spring.
Hammerberg, B. Lamm, W. D. Schaumburg : American Veterinary Medical Association. nematode egg counts in cows calving in spring, periparturient rise, breed and nutritional factors, effect of thiabendazole therapy, role of grazing cows in contaminating pasture. American journal of veterinary research. Oct 1980. v. 41 (10). p. 1686-1689. (NAL Call No.: 41.8 AM3A).

1511

Control external parasites & house flies around poultry operations.
Nolan, M.P. Jr. Athens, Ga. : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Oct 1988. (723,rev.). 22 p. ill. (NAL Call No.: DNAL 275.29 G29B).

1512

Development of a high volume testing system for certifying trichina tested pork at Lundy Packing Company.
Oliver, D. Madison, Wis. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1987. p. 118-124. Includes references. (NAL Call No.: DNAL 280.3409 L75A).

1513

Distribution of Trichinella spiralis larvae in selected muscles and organs of experimentally infected swine.
Kotula, A.W. JANSA. Murrell, K.D.; Acosta-Stein, L.; Lamb, L. Champaign : American Society of Animal Science. Trichinella spiralis larvae, pigs (exper.), detailed study of distribution in various muscles and organs to provide information on retail pork cuts, possibility that organ tissue can become cross contaminated by muscle tissue during evisceration, and cannot be assured to be free of T. spiralis larvae. Journal of animal science. Jan 1984. v. 58 (1). p. 94-98. (NAL Call No.: 49 J82).

1514

Drug interactions of levamisole with pyrantel tartrate and dichlorvos in pigs (Anthelmintics, toxicity).
Hsu, W.H. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Nov 1981. v. 42 (11). p. 1912-1914. ill. 10 ref. (NAL Call No.: 41.8 AM3A).

1515

Effects of aflatoxin (Aspergillus flavus, Aspergillus parasiticus) consumption on the clinical course of swine dysentery (Treponema hyodysenteriae, feed contamination).
Joens, L.A. Pier, A.C.; Cutlip, R.C. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. July 1981. v. 42 (7). p. 1170-1172. 17 ref. (NAL Call No.: 41.8 AM3A).

1516

Effects of atmospheric ammonia on young pigs experimentally infected with Ascaris suum.
Drummond, J.G. Curtis, S.E.; Simon, J.; Norton, H.W. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. June 1981. v. 42 (6). p. 969-974. ill. 16 ref. (NAL Call No.: 41.8 AM3A).

1517

Efficacy of febantel against abomasal nematodes and lungworms in cattle.
AJVRAH. Williams, J.C. Marbury, K.S.; Eddi, C.S.; Willis, E.R.; Luther, D.G. Schaumburg, Ill. : American Veterinary Medical Association. The efficacy of febantel at a dosage of 5 mg/kg (45.5% paste formulation) against inhibited early 4th-stage larvae (EL4) of Ostertagia ostertagi, other nematodes of the abomasum, and Dictyocaulus viviparus was investigated in 4- to 6-month-old Holstein calves that grazed on pasture heavily contaminated with parasites from February 24 to April 1, 1986 (36 days). In Louisiana, this is the first month of a 3-month period in which increasing numbers of inhibition-prone O ostertagi larvae are acquired, and infection risk with D viviparus may remain high. three of 4 calves that died of lungworm infection during the pasture-exposure period were necropsied. Large numbers of abomasal nematodes, including inhibited O ostertagi larvae, and large numbers of D viviparus were recovered. Twenty-five calves were randomly allotted by equal distribution of body weight to 2 groups and treated on April 4: placebo-treated calves (n = 13) and febantel-treated calves (n = 12). Equal numbers of treated and control calves were killed at 6 and 7 days, respectively, after treatment. Mean numbers of O ostertagi in control cattle were: adults, 4,931; developing 4th-stage larvae (DL4), 1,119; and inhibited EL4, 3,410.

Ostertagia lyrata, *Trichostrongylus axei*, *Haemonchus* sp, and *D. viviparus* were well distributed in nearly all control calves. Percentage reduction of *O. ostertagi* in treated calves, when compared with controls, was: adults, 83.6%; DL4, 57.8%; and inhibited EL4, 34.8%. Percentage reductions of other species were: *O. lyrata*, 92.6%; *T. axei* adults, 99.3%, and 4th-stage larvae (L4), 100%; *Haemonchus* sp adults, 66.7%, and L4, 64%; *viviparus* adults 90.6%, and immature forms, 97.1%. It was concluded that the poor efficacy against adults of *Haemonchus* sp and *O. ostertagi* may have been attributable to the high numbers of DL4 and FL4 of both species. In the 6- to 7-day interval between treatment and slaughter, the DL4 could have reached the adult stage and replaced adults lost through treatment. American journal of veterinary research. Dec 1988. v. 49 (12). p. 2085-2089. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1518

Efficacy of ivermectin in the oral paste formulation against naturally acquired adult and larval stages of *Parascaris equorum* in pony foals.

AJVRAH. French, D.D. Klei, T.R.; Taylor, H.W.; Chapman, M.R.; Wright, F.R. Schaumburg, Ill. : American Veterinary Medical Association. The efficacy of ivermectin in oral paste formulation at a dosage of 200 micrograms/kg of body weight was tested against naturally acquired larval and adult stages of *Parascaris equorum*, in a controlled study. Twenty infected pony foals 18 to 27 weeks of age were randomly allocated to 2 groups of 10 each and were placed in dry lots. Foals in 1 group were given ivermectin on day 0. Necropsies and parasite recoveries from small intestines and lung tissues were performed on 5 foals in each group at 2 weeks after treatment (WAT) and on the remaining foals at 5 WAT. Ivermectin was 100% effective against adult *P. equorum*. At 2 WAT, ivermectin was 100% effective against lung larval stages and 91% effective against intestinal larvae of *P. equorum*. Efficacy of ivermectin against all intestinal stages was 93%. Intestinal and lung larval populations were similar in ivermectin-treated and nontreated foals at 5 WAT, indicating that the foals had become reinfected from the contaminated drylots, with larvae repopulating in the tissues 2 to 5 WAT. Apparent increases in severity of lymphoproliferative and inflammatory tissue reactions were observed histologically in lung and liver tissues of treated foals. Clear differences in clinical conditions between foals in treated and nontreated groups were not observed. However, weight gains in foals were greatest after treatment. American journal of veterinary research. July 1988. v. 49 (7). p. 1000-1003. Includes references. (NAL Call No.: DNAL 41.8 AM3A). (NAL Call No.: DNAL 41.8 AM3A).

1519

Efficacy of morantel sustained-release bolus in control of gastrointestinal nematodes of weaned calves during the autumn-winter grazing season.

AJVRAH. Stuedemann, J.A. Giordina, H.; Walstrom, D.J.; McCampbell, H.C. Schaumburg, Ill. : American Veterinary Medical Association. A 168-day study was conducted to evaluate the efficacy of morantel tartrate sustained-release bolus (MSRB) in controlling gastrointestinal parasitism in weaned calves during autumn-winter grazing in the temperate climate of southern United States. Sixty-two weanling Angus heifers were used to assess treatment differences. Six sentinel heifers were necropsied to assess pretrial gastrointestinal worm counts. The remaining 56 heifers were assigned to 4 groups of 14 heifers each and were placed on four 4.86-hectare dormant Bermuda grass pastures (1 group/pasture) that had been no-till interseeded with cereal rye in early October. Heifers in 2 groups were given 1 MSRB in early November; the other 2 groups served as nonmedicated controls. Three heifers (principals) from each of the 4 groups were necropsied on posttreatment days 57, 112, and 168 (end of study) for total worm recovery. Eight 5-month-old tracer steers, raised worm-free from birth, grazed the 4 pastures (2/pasture) for the first 21 days of the study and then were kept in drylot for 21 days before being necropsied. Level of larval contamination of pastures grazed by control and MSRB-treated heifers were comparable, because the mean number of nematodes recovered from tracer steers grazing the control and MSRB pastures were 47,449 and 53,835, respectively. At 28 days after treatment, MSRB-treated heifers had lower ($P < 0.05$) mean egg counts/g of feces than did control heifers (280 vs 13). Although the magnitude of the differences between treated and control heifers decreased as the study progressed, the differences were significant ($P < 0.05$) at each sampling date throughout the 168-day study. Necropsy of 6 sentinels revealed a mean nematode count of 43,135. Necropsy of principal heifers revealed higher mean worm counts in control heifers, compared with those in MSRB-treated heifers on day 57 (35,758 vs 2,113; $P < 0.05$), 112 (20,740 vs 13,764; $P = 0.15$), and 168 (27,252 vs 6,957; $P < 0.05$). There were no differences. American journal of veterinary research. Dec 1988. v. 49 (12). p. 2090-2093. Includes references.

1520

Evaluation of *Haemonchus contortus* infections in sexually intact and ovariectomized ewes.

AJVRAH. Fleming, M.W. Rhodes, R.C. III; Gamble, H.R. Schaumburg, Ill. : American Veterinary Medical Association. Three experiments were conducted to investigate experimentally the occurrence of periparturient nematode egg rise in ewes and the hormonal modulation of *Haemonchus contortus* infections. In the first experiment, fall-bred and winter-bred pregnant ($n = 4$ and 14, respectively) and nonpregnant ($n = 5$ and 29, respectively) ewes were treated with anthelmintic and were pastured together on fields that were contaminated with *H. contortus*.

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Three weeks before lambing, all ewes were placed in concrete pens; fecal egg counts for the winter-bred group were obtained on alternate days. Pregnant and lactating ewes had significantly larger numbers ($P < 0.01$) of *H. contortus* eggs than did the nonpregnant controls 1 week before and after lambing. Lactating, fall-bred ewes had significantly ($P < 0.01$) more adult worms in their abomasum through natural acquisition than the nonpregnant controls. In the second experiment, fall-bred and winter-bred helminth-free, pregnant ($n = 4$ and 8 , respectively) and nonpregnant ($n = 3$ and 15 , respectively) ewes were inoculated on 5 alternate days, beginning 70 days after breeding with 20,000 infective *H. contortus* larvae. The ewes were maintained on concrete pens throughout pregnancy. Fecal egg counts were significantly ($P < 0.05$) greater in pregnant ewes, beginning 1 week before lambing until 1 week after lambing. Abomasums of lactating ewes from both lambing seasons yielded significantly ($P < 0.01$) more adult worms at necropsy than nonpregnant ewes. In the third experiment, ewes were ovariectomized ($n = 15$) or sham-operated ($n = 9$); half of the control ewes were bred. Beginning on day 70 of pregnancy, all ewes were inoculated orally with 20,000 infective *H. contortus* larvae on 5 alternative days. Abomasums were removed from all ewes after lambing, and adult worms were recovered. Pregnant ewes and half of the ovariectomized ewes had significantly ($P < 0.05$) more worms than did the sham-operated ewes. American journal of veterinary research. Oct 1988. v. 49 (10). p. 1733-1735. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1521

Fasciola hepatica: glycocalyx replacement in the juvenile as a possible mechanism for protection against host immunity (Sheep and cattle).

Hanna, R.E.B. New York, Academic. Experimental parasitology. Aug 1980. v. 50 (1). p. 103-114. ill. 35 ref. (NAL Call No.: 436.8 EX7).

1522

How does the swine industry evaluate the trichina situation?

Mulhern, F.J. Madison, Wis. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1987. p. 116-118. (NAL Call No.: DNAL 280.3409 L75A).

1523

Induction of immunity by transcolostrally-passed *Strongyloides ransomi* larvae in neonatal pigs.

Murrell, K.D. JOPAA. Urban, J.F., jr. Lawrence : American Society of Parasitologists. *Strongyloides ransomi*, intestinal worms obtained transcolostrally can induce high resistance in pigs to reinfection and they do not affect enhancement of protective immunity

by subcutaneous inoculation of third-stage larvae, peripheral blood lymphocytes obtained from transcolostrally-infected pigs did not respond to larval antigens in vitro until after subsequent subcutaneous inoculation of third-stage larvae. The Journal of parasitology. Feb 1983. v. 69 (1). p. 74-77. (NAL Call No.: 448.8 J824).

1524

Induction of protective immunity to *Strongyloides ransomi* in pigs.

Murrell, K.D. Schaumburg : American Veterinary Medical Association. *Strongyloides ransomi*, pigs, kinetics of expulsion of primary worm populations from small intestine, challenge exposure after either 1 or 2 inoculations of L3, migration route of L3 from site of inoculation to intestine, effect of ivermectin on arrested L3 in subventral fat tissue, effect of acquired immunity on migration and survival of L3. American journal of veterinary research. Nov 1981. v. 42 (11). p. 1915-1919. (NAL Call No.: 41.8 AM3A).

1525

Interaction of dichlorvos-crotoxyphos insecticide with phenothiazine anthelmintic in sheep with or without *Haemonchus* and *Trichostrongylus* infections.

Mohammad, F.K. AJVRA. St. Omer, V.E.V. Schaumburg : American Veterinary Medical Association. interaction of dichlorvos-crotoxyphos insecticide with phenothiazine anthelmintic in sheep with or without *Haemonchus* and *Trichostrongylus* infections, inhibition of erythrocyte acetylcholinesterase activity, clinical signs of toxicosis, and lethality determined. American journal of veterinary research. Oct 1983. v. 44 (10). p. 1949-1953. (NAL Call No.: 41.8 AM3A).

1526

Irradiated larval vaccination of ponies against *Strongylus vulgaris*.

Klei, T.R. JOPAA. Torbert, B.J.; Chapman, M.R.; Ochoa, R. Lawrence : American Society of Parasitologists. *Strongylus vulgaris*, ponies, vaccination with irradiated third-stage larvae, protection from clinical disease and lesions associated with challenge infections, significantly lower worm recoveries. The Journal of parasitology. Aug 1982. v. 68 (4). p. 561-569. (NAL Call No.: 448.8 J824).

1527

Morantel treatment of suckling purebred beef calves.

Newby, T.J.VTYMA. Drawe, D.L.; Slyngstad, C.A.; Anderson, V.L.; Bliss, D.H. Edwardsville : Veterinary Medicine Publishing Co. gastrointestinal parasitism, suckling purebred beef calves, administration of morantel during grazing season reduced egg count and pasture contamination, statistical evaluation of growth performance: Montana; Texas. VM/SAC, veterinary medicine & small animal clinician. Nov 1982. v. 77 (11). p. 1657-1660. (NAL Call No.: 41.8 M69).

1528

Prevalence of trichinosis in southern Louisiana swine.

AJVRAH. Hugh-Jones, M.E. Stewart, T.b.; Raby, C.; Morrison, J.E.; Isenstein, R.S. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Feb 1985. v. 46 (2). p. 463-465. Includes 10 references. (NAL Call No.: DNAL 41.8 AM3A).

1529

Protection of lambs with a purified metabolite of exsheathed third-stage *Haemonchus contortus* larvae.

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Ludwig, K.G. Johnstone, C. Edwardsville, Kan. : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Sept 1984. v. 79 (9). p. 1183-1185, 1188-1189. ill. Includes 3 references. (NAL Call No.: DNAL 41.8 M69).

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Klesius, P.H. Giambrone, J.J. Champaign, Ill. : Poultry Science Association. Poultry science. July 1984. v. 63 (7). p. 1333-1337. Includes references. (NAL Call No.: 47.8 AM33P).

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Long-term persistence of Toxoplasma gondii in tissues of pigs inoculated with Toxoplasma oocysts and effect of freezing on viability of tissue cysts in pork.

AJVRAH. Dubey, J.P. Schaumburg, Ill. : American Veterinary Medical Association. Abstract: To study the distribution of tissue cysts in porcine tissues, 16 pigs were fed oocysts of 4 strains of Toxoplasma gondii (4 pigs/strain). Pigs were euthanatized between postinoculation days 103 and 875 and portions of 5 to 14 organs were bioassayed in mice and/or cats for T gondii. For bioassays, 50- to 100-g portions of tissue were incubated in acidic pepsin solution to free bradyzoites from cysts in parenchyma, and washed sediment from the digests of each specimen was inoculated SC into mice (6 mice/organ). For bioassays in cats, a 500-g portion or whole organ was fed to Toxoplasma-free cats (1 cat/organ). Toxoplasma gondii was recovered from tissues of 14 of the 16 pigs (from the brains of 12, hearts of 11, tongues of 10, and diaphragms of 6). Toxoplasma gondii was isolated from commercial cuts of meat from 5 infected pigs, from the arm picnic and ham of 3, Boston butt, spareribs, and tenderloin of 2, and bacon and tailbone of 1. Regarding the 4 pigs euthanatized between postinoculation days 759 and 865, cats shed T gondii oocysts after the ingestion of hearts of all 4; tongues of 3; bacon, hams, arm picnics, Boston butts, spareribs, and diaphragms of 2; and livers, kidneys, and tenderloins of 1. Toxoplasma gondii was found to be inconsistently distributed among the organs and muscles, but overall, tongue and heart were more heavily infected than were other tissues. Tissue cysts in pork were rendered nonviable at -12 C for 3 days. American journal of veterinary research. June 1988. v. 49 (6). p. 910-913. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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AJVRAM. Dubey, J.P. Murrell, K.D.; Fayer, R. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Oct 1984. v. 45 (10). p. 1941-1943. Includes 7 references. (NAL Call No.: DNAL 41.8 AM3A).

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JOIMA3. Pavia, C.S. Baltimore, Md. : The American Association of Immunologists. The Journal of immunology. Nov 1, 1986. v. 137 (9). p. 2985-2990. Includes references. (NAL Call No.: DNAL 448.8 J8232).

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Rueff, L. Kansas City, Mo.? : The Association. Proceedings of annual meeting - American Association of Swine Practitioners. Meeting held on March 16-18, 1986, Minneapolis, Minnesota. 1986. p. 253-263. (NAL Call No.: DNAL SF971.A44).

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Cysticercosis: A Major threat to human health and livestock production.
FOTEA. Flisser, Ana. Chicago, Ill. : Institute of Food Technologists. Abstract: Taenia tapeworm larvae in infected livestock produce bovine, ovine, caprine, and porcine cysticercosis, resulting in meat carcass

contamination. The epidemiological incidence of infestation of such larvae, and steps that should be undertaken to control cysticercosis (and taeniasis, produced by adult Taenia), are reviewed and discussed. One of the Taenia species, Taenia solium, produces cysticercosis in humans; human neurocysticercosis being a serious disease and a public health problem in Asia and Latin America. Immunological methods for the diagnosis of cysticercosis are available. (wz). Food technology. March 1985. v. 39 (3). p. 61-64. ill. Includes 36 references. (NAL Call No.: DNAL 389.8 F7398).

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KAEBE. Graham, R. Lexington : The Station. Bulletin - Kentucky, Agricultural Experiment Station. Documents available from: Agriculture Library, Agricultural Science Center - North, University of Kentucky, Lexington, Ky. 40546-0091. Sept 1912. (167). p. 367-383. plates. Includes 8 references. (NAL Call No.: DNAL 100 K41 (2)).

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McCune, E. L. Document available from: University of Missouri, Extension Publications, 222 S. Fifth Street, Columbia, Missouri 65201 1978. This publication discusses fumigation and sanitation in hatcheries, and includes formaldehyde, fumigation before and during setting, and fumigation in the hatcher and between hatches. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: 8908).

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Beech, J. Manhattan : The Association. Proceedings of the ... annual convention of the American Association of Equine Practitioners. 1986. (32nd). p. 299-305. Includes references. (NAL Call No.: DNAL SF601.A46).

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OKAMA. Smith, R.A. Hicks, R.B.; Gill, D.R.; Ball, R.L. Stillwater : The Station. Miscellaneous publication - Agricultural Experiment Station, Oklahoma State University. May 1986. (118). p. 269-272. Includes references. (NAL Call No.: DNAL 100 OK4 (3)).

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Targowski, S.P. JDSCA. Champaign : American Dairy Science Association. Journal of dairy science. Aug 1983. v. 66 (8). p. 1781-1789. ill. Includes references. (NAL Call No.: 44.8 J822).

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KAEBE. Doll, E.R. Wallace, M.E.; Hull, F.E. Lexington : The Station. Bulletin - Kentucky, Agricultural Experiment Station. Documents available from: Agriculture Library, Agricultural Science Center - North, University of Kentucky, Lexington, Ky. 40546-0091. May

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Bickford, A.A. Little Rock : Intox Press. Neurotoxicology. Dec 1982. v. 3 (4). p. 315-319. Includes references. (NAL Call No.: RC321.N437).

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DHMG. Britt, J. Minneapolis : Miller Publishing Co. Dairy herd management. Jan 1985. v. 22 (1). p. 80, 66. (NAL Call No.: DNAL SF191.D3).

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Kornegay, E.T. Kansas City, Mo. : The Association. Proceedings of annual meeting - American Association of Swine Practitioners. Meeting held on March 16-18, 1986, Minneapolis, Minnesota.~ Literature review. 1986. p. 421-445. Includes references. (NAL Call No.: DNAL SF971.A44).

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Ott, J.M. Princeton Junction, N.J. : Veterinary Learning Systems. The Compendium on continuing education for the practicing veterinarian. June 1986. v. 8 (6). p. S321-S327. ill. Includes 13 references. (NAL Call No.: DNAL SF601.C66).

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Strategies for the control of human trichinosis transmitted by pork.

FOTEA. Murrell, K.D. Chicago, Ill. : Institute of Food Technologists. Abstract: The characteristics of trichinosis, a serious disease of swine and humans (transmitted by infected pork ingestion) caused by the parasitic nematode worm, *Trichinella spiralis*, are discussed. Strategies for controlling trichinosis and methods for surveillance and eradication of such parasitic infections are examined. Features of a US national or state surveillance and eradication strategy are identified. Prospects for the development of a vaccine for swine trichinosis are discussed. (wz). Food technology. March 1985. v. 39 (3). p. 65-68, 110-111. ill., charts. Includes 24 references. (NAL Call No.: DNAL 389.8 F7398).

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JAVRA. Green, S.L. Hager, D.A.; Calderwood Mays, M.B.; Merritt, A.M. Philadelphia, Pa. : J.B. Lippincott Company. Veterinary radiology. Nov/Dec 1987. v. 28 (6). p. 216-219. ill. Includes references. (NAL Call No.: DNAL 41.9 AM37).

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Antifungal activity of enilconazole on experimental aspergillosis in chickens (*Aspergillus fumigatus*).

Cutsem, J. vanAVDIA. Kennett Square : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1983. v. 27 (1). p. 36-42. Includes references. (NAL Call No.: 41.8 AV5).

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Dyar, P.M. Fletcher, D.J.; Page, R.K. Kennett Square : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1984. v. 28 (1). p. 250-255. ill. Includes references. (NAL Call No.: 41.8 AV5).

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Good, R.E. Hamilton, P.B. Champaign, Ill., Poultry Science Association. Poultry science. July 1981. v. 60 (7). p. 1403-1405. Bibliography p. 1405. (NAL Call No.: 47.8 AM33P).

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AVDIA. Redig, P.T. Duke, G.E. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. July/Sept 1985. v. 29 (3). p. 649-661. Includes 31 references. (NAL Call No.: DNAL 41.8 AV5).

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AVDIA. Mendoza, L. Fonseca, E. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1985. v. 29 (2). p. 514-517. ill. Includes 14 references. (NAL Call No.: DNAL 41.8 AV5).

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Identification of swainsonine as a probable contributory mycotoxin in moldy forage mycotoxicoses *Rhizoctonia leguminicola*, Slobber syndrome, red clover hay, slaframine, *Swainsona canescens*.

APMBA. Broquist, H.P. Mason, P.S.; Hagler, W.M.; Harris, T.M. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. Aug 1984. v. 48 (2). p. 386-388. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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AVDIA. Chu, Q. Cook, M.E.; Wu, W.; Smalley, E.B. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1988. v. 32 (1). p. 132-136. Includes references. (NAL Call No.: DNAL 41.8 AV5).

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31MUA. Walser, M.M. Ithaca, N.Y. : The Conference. Proceedings - Cornell Nutrition Conference for Feed Manufacturers. Paper presented at the 1987 Cornell Nutrition Conference for Feed Manufacturers, October 26-28, 1987, East Syracuse, New York. 1987. p. 69-73. Includes references. (NAL Call No.: DNAL 389.79 C81).

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1599

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Janni, K.A. Redig, P.T.; Mulhausen, J.R.; Newman, J.A. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-4527). 14 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

1600

Vaccination studies of aspergillosis in turkeys: subcutaneous inoculation with several vaccine preparations followed by aerosol challenge exposure (*Aspergillus fumigatus*).

Richard, J.L. Thurston, J.R.; Cutlip, R.C.; Pier, A.C. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Mar 1982. v. 43 (3). p. 488-492. ill. Includes 19 ref. (NAL Call No.: 41.8 AM3A).

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1601

Acridine orange staining for diagnosis of *Mycoplasma bovis* infection in cow milk.
JCMIDW. Jasper, D.E. Rosendal, S.; Barnum D.A. Washington, D.C. : American Society for Microbiology. Journal of clinical microbiology. Oct 1984. v. 20 (4). p. 624-625. Includes 9 references. (NAL Call No.: DNAL QR46.J6).

1602

Actinobacillus suis-like organisms in horses.
AJVRAH. Jang, S.S. Biberstein, E.L.; Hirsh, D.C. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. July 1987. v. 48 (7). p. 1036-1038. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1603

Acute mastitis in cows. 1. Fatal cases.
MVPRA. DeJong, G.A. Goleta, Calif. : American Veterinary Publications. Modern veterinary practice. July/Aug 1987. v. 68 (7/8). p. 430-435. Includes references. (NAL Call No.: DNAL 41.8 N812).

1604

Additive protective effects of colostral antipili antibodies in calves experimentally infected with enterotoxigenic *Escherichia coli*.
INFIBR. Contrepois, M.G. Girardeau, J.P. Washington, D.C. : American Society for Microbiology. Infection and immunity. Dec 1985. v. 50 (3). p. 947-949. Includes 27 references. (NAL Call No.: DNAL QR1.I57).

1605

Adherence pili from avian strains of *Escherichia coli* and their possible use in protective vaccination.
39EJA. Naveh, M.W. Ron, E.Z. Davis : University of California. Proceedings - Western Poultry Disease Conference. 1984. (33rd). p. 16. (NAL Call No.: DNAL SF995.W4).

1606

Administering amikacin sulfate as a treatment for severe equine respiratory infections.
Cudd, T. Edwardsville, Kan. : Veterinary Medicine Publishing Co. Veterinary medicine. Feb 1985. v. 80 (2). p. 99-103. ill. Includes 2 references. (NAL Call No.: DNAL 41.8 M69).

1607

Ampicillin sodium (Amp-Equine) as a parenteral (bactericidal) antibiotic for horses.
Keefe, T.J. Simmons, R.D.; Southard, M.A. Bonner Springs, Kan., Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Nov 1980. v. 75 (11). p. 1727-1731. 3 ref. (NAL Call No.: 41.8 M69).

1608

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KAEB. Gahan, R. Brueckner, A.L.; Pontius, R.L. Lexington : The Station. Bulletin - Kentucky, Agricultural Experiment Station. Documents available from: Agriculture Library, Agricultural Science Center - North, University of Kentucky, Lexington, Ky. 40546-0091. July 1917. (208). p. 115-134. ill. (NAL Call No.: DNAL 100 K41 (2)).

1609

Animal viruses, coliphages, and bacteria in aerosols and wastewater at a spray irrigation site.
APMBA. Brenner, K.P. Scarpino, P.V.; Clark, C.S. Washington, D.C. : American Society for Microbiology. Abstract: Aerosol samples collected at the Muskegon County Wastewater Management System Number 1 spray irrigation site in Michigan by using the Army prototype XM2 Biological Sampler/Collector were examined for the presence of animal viruses, coliphages, and bacteria. Air samples, collected in Earle lactalbumen hydrolysate, and wastewater samples were filtered through a 0.45- and 1.2 micron membrane filter sandwich, pretreated with 10% beef extract (pH 7.0), and assayed for animal viruses by the plaque method on Buffalo green monkey kidney cells. Untreated air and wastewater samples were assayed for coliphages by the soft agar overlay method with three *Escherichia coli* hosts (ATCC 13706, 15597, and 11303) and for bacteria by the heterotrophic plate count method. Filtered air samples were assayed for coliphages by the most-probable-number method with the same three hosts. Although no animal viruses were detected in the aerosol samples, coliphages and bacteria were recovered. *E. coli* ATCC 13706 coliphage were recovered more often and in greater numbers than either of the other two types of coliphages. Concentrations of animal viruses, coliphages, and bacteria detected in the raw influent decreased as the wastewater was aerated and stored in the lagoons. No animal viruses were detected in the wastewater at the pump station just before distribution to the spray irrigation rigs. The most-probable-number method was more sensitive and consistent than the overlay procedure in detecting low levels of coliphages in air samples. Applied and Environmental microbiology. Feb 1988. v. 54 (2). p. 409-415. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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1610

Antibiotic aerosolization for treatment of *Alcaligenes rhinotracheitis* (Turkeys).

Ficken, M.D. AVDIA. Kennett Square : American Association of Avian Pathologists. Avian diseases. Apr 1983. v. 27 (2). p. 545-548. ill. Includes references. (NAL Call No.: 41.8 AV5).

1611

Antibiotic aerosolization: the effect on experimentally induced *Alcaligenes rhinotracheitis* in turkeys.

AVDIA. Van Alstine, W.G. Hofstad, M.S. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Literature review. Jan/Mar 1985. v. 29 (1). p. 159-176. ill. Includes 62 references. (NAL Call No.: DNAL 41.8 AV5).

1612

Antibiotic aerosolization: tissue and plasma oxytetracycline concentrations in turkey poults.

AVDIA. Van Alstine, W.G. Dyer, D.C. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1985. v. 29 (2). p. 430-436. Includes 15 references. (NAL Call No.: DNAL 41.8 AV5).

1613

Antibiotic and sulfonamide sensitivity of 50 *Haemophilus pleuropneumoniae* isolates (Swine with pneumonia).

Schultz, R.A. VTYMA. Ross, R.F. Edwardsville : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Apr 1983. v. 78 (4). p. 603-605. Includes references. (NAL Call No.: 41.8 M69).

1614

Antibiotic combinations.

Brumbaugh, G.W. Manhattan : The Association. Proceedings of the ... annual convention of the American Association of Equine Practitioners. 1986. (32nd). p. 201-204. Includes references. (NAL Call No.: DNAL SF601.A46).

1615

Antibiotic egg injection to eliminate disease. II. Elimination of *Mycoplasma meleagridis* from a strain of turkeys.

Ghazikhanian, G.Y. Yamamoto, R.; McCapes, R.H.; Dungan, W.M.; Larsen, C.T.; Ortmayer, H.B. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Jan/Mar 1980. v. 24 (1). p. 48-56. ill. 18 ref. (NAL Call No.: 41.8 AV5).

1616

The antibiotic issue: a reappraisal needed (Calf scours prevention, *Escherichia coli*).

Shull, J.J. Cardon, B.P. Minneapolis, Miller Publishing Co. Feedstuffs. Feb 18, 1980. v. 52 (7). p. 41-42. ill. 4 ref. (NAL Call No.: 286.81 F322).

1617

Antibiotic resistance of fecal coliforms from swine fed subtherapeutic and therapeutic levels of chlortetracycline.

Langlois, B.E. Dawson, K.A.; Stahly, T.S.; Cromwell, G.L. Champaign : American Society of Animal Science. Journal of animal science. Mar 1984. v. 58 (3). p. 666-674. ill. Includes references. (NAL Call No.: 49 J82).

1618

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Blackburn, B.O. Schlater, L.K.; Swanson, M.R. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1984. v. 45 (6). p. 1245-1249. ill. Includes references. (NAL Call No.: 41.8 AM3A).

1619

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AJVRAH. Mills, K.W. Kelly, B.L. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Nov 1986. v. 47 (11). p. 2349-2350. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1620

Antibiotic susceptibility profiles for mastitis treatment.

JAVMA4. Hinckley, L.S. Benson, R.H.; Post, J.E.; DeCloux, J.C. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Oct 1, 1985. v. 187 (7). p. 709-711. Includes 6 references. (NAL Call No.: DNAL 41.8 AM3).

1621

Antibiotic treatment of mastitis: comparison of intramammary and intramammary plus intramuscular therapies.

JDSCAE. Owens, W.E. Watts, J.L.; Boddie, R.L.; Nickerson, S.C. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Nov 1988. v. 71 (11). p. 3143-3147. Includes references. (NAL Call No.: DNAL 44.8)

J822).

1622

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JFPRDR. Levy, S.B. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1987. v. 50 (7). p. 616-620. Includes references. (NAL Call No.: DNAL 44.8 J824).

1623

Antibiotic use in musculoskeletal disease.

McIlwraith, C.W. Manhattan : The Association. Proceedings of the ... annual convention of the American Association of Equine Practitioners. Literature review. 1986. (32nd). p. 241-249. Includes references. (NAL Call No.: DNAL SF601.A46).

1624

Antibiotic use in reproductive disease.

Asbury, A.C. Manhattan : The Association. Proceedings of the ... annual convention of the American Association of Equine Practitioners. 1986. (32nd). p. 233-239. Includes references. (NAL Call No.: DNAL SF601.A46).

1625

Antibiotics (Bacterial diseases, horses).

Pedersoli, W.M. Philadelphia, Pa. : Saunders, c1983. Current therapy in equine medicine / edited by N. Edward Robinson. p. 43-57. Includes references. (NAL Call No.: SF951.C93).

1626

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LOAGA. Nickerson, S.C. Boddie, N.T.; Paape, M.J.; Dulin, A.M. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Summer 1985. v. 28 (4). p. 89. ill. (NAL Call No.: DNAL 100 L939).

1627

Antigen-extinction profile in pregnant cows, using a K99-containing whole-cell bacterin to induce passive protection against enterotoxigenic colibacillosis of calves (Escherichia coli).

Acres S.D. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Apr 1982. v. 43 (4). p. 569-575. Includes 38 ref. (NAL Call No.: 41.8 AM3A).

1628

Antimicrobial alternatives for calf diarrhea: iron chelators or competitors.

JAVMA4. Fettman, M.J. Rollin, R.E. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Oct 1, 1985. v. 187 (7). p. 746-748. Includes 23 references. (NAL Call No.: DNAL 41.8 AM3).

1629

Antimicrobial susceptibility and beta-lactamase testing of staphylococci isolated from dairy herds.

JDSCAE. Owens, W.E. Watts, J.L. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. July 1988. v. 71 (7). p. 1934-1939. Includes references. (NAL Call No.: DNAL 44.8 J822).

1630

Antimicrobial treatment of respiratory disease (Antibiotics, infection in horses).

Beech, J. Philadelphia, Pa. : Saunders, c1983. Current therapy in equine medicine / edited by N. Edward Robinson. p. 467-475. Includes references. (NAL Call No.: SF951.C93).

1631

Antimicrobial use in equine respiratory disease.

Spurlock, S.L. Manhattan : The Association. Proceedings of the ... annual convention of the American Association of Equine Practitioners. 1986. (32nd). p. 229-232. Includes references. (NAL Call No.: DNAL SF601.A46).

1632

Antimicrobial effects of Lactobacillus fermentation on edible waste material contaminated with infected carcasses.

AJVRH. Shotts, E.B. Wooley, R.E.; Dickens, J.A. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Nov. 1984. v. 45 (11). p. 2467-2470. ill. Includes 10 references. (NAL Call No.: DNAL 41.8 AM3A).

1633

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AJVRH. Anderson, K.L. Kindahl, H.; Petroni, A.; Smith, A.R.; Gustafsson, B.K. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. July 1985. v. 46 (7). p. 1573-1577. ill. Includes 23 references. (NAL Call No.: DNAL 41.8 AM3A).

(ANIMAL DISEASES - BACTERIAL)

1634

Atrophic rhinitis vaccination and antibiotic combinations in swine.

Arthur, R.D. Hodson, H.H. Jr.; Powell, S.E.; Strack, L.E.; Olson, R.C. Carbondale, Ill., Southern Illinois University. AG review Southern Illinois University. School of Agriculture. 1981. 1981. p. ANI23-ANI26. (NAL Call No.: S537.S5S6).

1635

Bacterial antibiotic resistance: frequency of gentamicin-resistant strains of *Escherichia coli* in the fecal microflora of commercial turkeys.

Dubel, J.R. Zink, D.L.; Kelley, L.M.; Naqi, S.A.; Renshaw, H.W. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Oct 1982. v. 43 (10). p. 1786-1789. 37 ref. (NAL Call No.: 41.8 AM3A).

1636

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Hawkins, D.L. Lake Elsinore, Calif. : William E. Jones, DVM. Journal of equine veterinary science. 1985. v. 5 (4). p. 231-234. ill. (NAL Call No.: DNAL SF951.J65).

1637

Bacterial contamination of hatching eggs.

KAEB. MacLaury, D.W. Moran, A.B. Lexington : The Station. Bulletin - Kentucky, Agricultural Experiment Station. Documents available from: Agriculture Library, Agricultural Science Center - North, University of Kentucky, Lexington, Ky. 40546-0091. Includes statistical data. May 1959. (665). 27 p. Includes references. (NAL Call No.: DNAL 100 K41 (2)).

1638

Bacterial contamination of hatching eggs and chicks produced by broiler breeders housed in litter-slat and sloping floor management systems / by Thomas Ames Carter. -.

Carter, Thomas Ames, 1938-. 1971. Thesis (Ph.D.)--Pennsylvania State University, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. viii, 83 leaves : 21 cm. Bibliography: leaves 80-83. (NAL Call No.: DISS 72-13,829).

1639

Bacterial meningitis in large animals. II.

Jamison, J.M. Prescott, J.F. Lawrenceville, N.J. : Veterinary Learning Systems Company. The Compendium on continuing education for the practicing veterinarian. Literature review. Feb 1988. v. 10 (2). p. 225-232. Includes references. (NAL Call No.: DNAL SF601.C66).

1640

Biochemical and antibacterial properties of bovine mammary secretion during mammary involution and at parturition.

JDSCAE. Nonnecke, B.J. Smith, K.L. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Dec 1984. v. 67 (12). p. 2863-2872. Includes 27 references. (NAL Call No.: DNAL 44.8 J822).

1641

Biochemical and serologic characterization of *Klebsiella* strains from bovine mastitis and the environment of the dairy cow.

AJVRH. Nonnecke, B.J. Newbould, F.H.S. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Nov. 1984. v. 45 (11). p. 2451-2454. Includes 21 references. (NAL Call No.: DNAL 41.8 AM3A).

1642

Biochemical and serologic properties of *Escherichia coli* isolated from cows with acute mastitis.

Sanchez-Carlo, V. Wilson, R.A.; McDonald, J.S.; Packer, R.A. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Sept 1984. v. 45 (9). p. 1771-1774. Includes 27 references. (NAL Call No.: 41.8 AM3A).

1643

Biochemical and serological studies of microorganisms of the *Salmonella cholerae-suis* group.

KAEB. Bruner, D.W. Edwards, P.R. Lexington : The Station. Bulletin - Kentucky, Agricultural Experiment Station. Documents available from: Agriculture Library, Agricultural Science Center - North, University of Kentucky, Lexington, Ky. 40546-0091. June 1940. (404). p. 289-303. Includes references. (NAL Call No.: DNAL 100 K41 (2)).

1644

Brucella abortus vaccines: comparison of protection provided by immunopotentiated 45/20 bacterins and live strain 19 vaccine in guinea pigs.

Woodaard, L.F. Toone, N.M.; Jasman, R.L. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Nov 1981. v. 42 (11). p. 1959-1962. 29 ref. (NAL Call No.: 41.8 AM3A).

1645

Calf pneumonia requires prompt action.

DHMG. Weaver, L. Minneapolis : Miller Publishing Co. Dairy herd management. Feb 1984. v. 21 (2). p. 56, 54. (NAL Call No.: DNAL SF191.D3).

1646

Campylobacter fetus subsp. jejuni in a turkey processing plant (Zoonoses).

Luechtefeld, N.W. Wang, W.L.L. Washington, D.C., American Society for Microbiology. Journal of clinical microbiology. Feb 1981. v. 13 (2). p. 266-268. 23 ref. (NAL Call No.: QR46.J6).

1647

Cellular defense of the avian respiratory system: protection against Escherichia coli airsacculitis by Pasteurella multocida-activated respiratory phagocytes.

AVDIA. Toth, T.E. Veit, H.; Gross, W.B.; Siegel, P.B. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1988. v. 32 (4). p. 681-687. Includes references. (NAL Call No.: DNAL 41.8 AV5).

1648

Characteristics of protective activity of Mycoplasma hyopneumoniae vaccine.

AJVR. Ross, R.F. Zimmermann-Erickson, B.J.; Young, T.F. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Oct 1984. v. 45 (10). p. 1899-1905. Includes 33 references. (NAL Call No.: DNAL 41.8 AM3A).

1649

Chloramphenicol therapy in large animals (Antibiotics, horses, pigs).

Knight, A.P. Schaumburg, Ill., The Association. Journal of the American Veterinary Medical Association. Feb 1, 1981. v. 178 (3). p. 309-310. (NAL Call No.: 41.8 AM3).

1650

Choosing an intramammary antibiotic to treat mastitis.

Mitema, E.S. Agumba, G.J. Lenexa, Kan. : Veterinary Medicine Publishing Co. Veterinary medicine. Sept 1987. v. 82 (9). p. 930-932. Includes references. (NAL Call No.: DNAL 41.8 M69).

1651

Clinical, bacteriologic, and serologic features of Haemophilus pleuropneumoniae outbreaks in Iowa swine.

PAMDD. Hoffman, L.J. Carballo, J.P.; Henderson, L.M. Madison, Wis. : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. 1985. (28th). p. 211-224. Includes 6 references. (NAL Call No.: DNAL SF771.A53A).

1652

Coliform mastitis--a challenge for dairymen and researchers (Dairy cows, bacteria, milk sanitation).

Harmon, R.J. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Jan 1984. v. 4 (1). p. 4-6. (NAL Call No.: SF221.D342).

1653

Combination dip and injection of turkey eggs with antibiotics to eliminate Mycoplasma meleagridis infection from a primary breeding stock.

Ghazikhanian, G.Y. Yamamoto, R.; McCapes, R.H.; Dungan, W.M.; Ortmayer, H.B. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Jan/Mar 1980. v. 24 (1). p. 57-70. 11. 14 ref. (NAL Call No.: 41.8 AV5).

1654

Comparison of protection induced in lambs by Corynebacterium pseudotuberculosis whole cell and cell wall vaccines.

AJVR. Brogden, K.A. Cutlip, R.C.; Lehmkuhl, H.D. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Nov. 1984. v. 45 (11). p. 2393-2395. Includes 19 references. (NAL Call No.: DNAL 41.8 AM3A).

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1655

Comparison of single and double dry cow treatment against *Staphylococcus aureus*.
Boddie, R.L. Pankey, J.W.; Nickerson, S.C.
Homer, La. : The Station. Dairy research report - Louisiana Agricultural Experiment Station. 1983. p. 141-143. (NAL Call No.: DNAL SF241.L8N6).

1656

A comparison of two antibiotics in treating *Mycoplasma (hyorhinis)* pneumonia in swine.
Kunesh, J.P. Edwardsville, Kan., Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. June 1981. v. 76 (6). p. 871-872. 4 ref. (NAL Call No.: 41.8 M69).

1657

Comparison of various antigens and their ability to detect protective antibodies against *Pasteurella multocida* using enzyme-linked immunosorbent assay.
AVDIA. Avakian, A.P. Dick, J.W.; Derieux, W.T.; Henry, C.W. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. July/Sept 1986. v. 30 (3). p. 527-535. Includes references. (NAL Call No.: DNAL 41.8 AV5).

1658

Control of wheat-induced lactic acidosis in sheep by thiopeptin and related antibiotics (*Streptococcus bovis*).
Muir, L.A. Rickes, E.L.; Duquette, P.F.; Smith, G.E. Champaign, Ill., American Society of Animal Science. Journal of animal science. Mar 1980. v. 50 (3). p. 547-553. ill. 18 ref. (NAL Call No.: 49 J82).

1659

Correlation of macrophage migration-inhibition factor and protection from challenge exposure in calves vaccinated with *Salmonella typhimurium*.
AJVRAH. Habasha, F.G. Smith, B.P.; Schwartz, L.; Ardans, A.; Reina-Guerra, M. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. July 1985. v. 46 (7). p. 1415-1421. Includes 50 references. (NAL Call No.: DNAL 41.8 AM3A).

1660

Cross-protection factor(s) of *Pasteurella multocida*: passive immunization of turkeys against fowl cholera caused by different serotypes.
AVDIA. Rimler, R.B. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1987. v. 31 (4). p. 884-887. Includes references. (NAL Call No.: DNAL 41.8 AV5).

1661

Cross protection in mice and swine immunized with live *Erysipelothrix rhusiopathiae* vaccine to challenge exposure with strains of *Erysipelothrix rhusiopathiae* of various serotypes.
AJVRAH. Takahashi, T. Takagi, M.; Sawada, T.; Seto, K. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Oct 1984. v. 45 (10). p. 2115-2118. Includes 17 references. (NAL Call No.: DNAL 41.8 AM3A).

1662

Cross-protection in swine between toxigenic *Pasteurella multocida* serotypes A and D.
Ostle, A.G. Welter, C.J. Santa Barbara, Calif. : Veterinary Practice Publishing Company. Agri-Practice. Nov/Dec 1987. v. 8 (7). p. 23-26. Includes references. (NAL Call No.: DNAL SF601.B6).

1663

Cross protection of mice and swine given live-organism vaccine against challenge exposure with strains of *Erysipelothrix rhusiopathiae* representing ten serovars.
AJVRAH. Sawada, T. Takahashi, T. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Jan 1987. v. 48 (1). p. 81-84. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1664

Cross protection of mice and swine inoculated with culture filtrate of attenuated *Erysipelothrix rhusiopathiae* and challenge exposed to strains of various serovars.
AJVRAH. Sawada, T. Takahashi, T. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Feb 1987. v. 48 (2). p. 239-242. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1665

Cross protection of ponies from sublethal *Escherichia coli* endotoxemia by *Salmonella typhimurium* antiserum.

Garner, H.E. Sprouse, R.F.; Lager, K. Santa Barbara, Calif. : Veterinary Practice Pub. Co. Equine practice. Apr 1988. v. 10 (4). p. 10-11, 14-15, 17. Includes references. (NAL Call No.: DNAL SF951.E62).

1666

Cross-protective fowl cholera bacterins (*Pasteurella multocida*, serologic and immunologic types, preparation requires only one passage of infected tissue through a laboratory medium, sterilization, and recovery for use; citation only).

Rebers, P.A. USDA. Heddleston, K.L. Washington, D.C., The Office. United States patent - United States Patent Office. Jan 23, 1979. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231. Jan 23, 1979. (4,136,169). 4 p. 3 ref. (NAL Call No.: No Call No. (PAT)).

1667

Distribution and clearance of aflatoxins B1 and M1 in turkeys fed diets containing 50 or 150 ppb aflatoxin from naturally contaminated corn. AVDIA. Richard, J.L. Stubblefield, R.D.; Lyon, R.L.; Peden, W.M.; Thurston, J.R.; Rimler, R.B. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1986. v. 30 (4). p. 788-793. Includes references. (NAL Call No.: DNAL 41.8 AV5).

1668

Drug residues in milk after intrauterine injection of oxytetracycline, lincomycin-spectinomycin, and povidone-iodine in cows with metritis.

AUVRAH. Kaneene, J.B. Coe, P.H.; Smith, J.H.; Rapnicki, P.; Smith, C.L.; Gerloff, B.; Morrow, D.A. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1986. v. 47 (6). p. 1363-1365. Includes 9 references. (NAL Call No.: DNAL 41.8 AM3A).

1669

Dye marked antibiotics for lactating cow mastitis therapy.

Novak, N.F. Gilmore, T.M.; Parsons, J.G. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Aug 1984. v. 67 (8). p. 1841-1849. ill. Includes 16 references. (NAL Call No.: 44.8 J822).

1670

Dye marked antibiotics in dry cow mastitis therapy.

JDSCAE. Gilmore, T.M. Ellefson, R.A.; Parsons, J.G. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Apr 1986. v. 69 (4). p. 1128-1134. Includes 17 references. (NAL Call No.: DNAL 44.8 J822).

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An economic evaluation of various treatments for contagious foot rot in sheep, using decision analysis.

JAVMA. Salman, M.D. Dargatz, D.A.; Kimberling, C.V.; Ellis, R.P. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. July 15, 1988. v. 193 (2). p. 195-204. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Effect of antibiotics on intestinal microflora and flavor of broiler meat.

Sheldon, B.W. Essary, E.O. Champaign, Ill., Poultry Science Association. Poultry science. Feb 1982. v. 61 (2). p. 280-287. ill. Includes 19 ref. (NAL Call No.: 47.8 AM3P).

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The effect of disinfectants on the density of coliforms in sawdust bedding (Contamination of teat ends of cows).

Bashandy, E.Y. Heider, L.E. Stillwater : American Association of Bovine Practitioners. The Bovine practitioner. Nov 1982. Nov 1982. (17). p. 16-19. 1 p. ref. (NAL Call No.: SF779.5.A1B6).

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Effect of *Eimeria tenella* infection in chickens fed the feed artificially contaminated with *Salmonella typhimurium*.

Morishima, H. Baba, E.; Fukata, T.; Arakawa, A. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1984. v. 63 (9). p. 1732-1737. Includes references. (NAL Call No.: 47.8 AM3P).

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The effect of feeding low levels of antibiotics on the resistance patterns to tetracyclines in fecal *Escherichia coli*.

Bane, D.P. Hall, W.; Kniffen, T.; Costello, S. Kansas City, Mo.? : The Association. Proceedings of annual meeting - American Association of Swine Practitioners. Meeting held on March 16-18, 1986, Minneapolis, Minnesota. 1986. p. 395-396. (NAL Call No.:

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Effect of formaldehyde fumigation on mortality of chick embryos.

KAEBE. Insko, W.M. Jr. Steele, D.G.; Hinton, C.M. Lexington : The Station. Bulletin - Kentucky, Agricultural Experiment Station. Documents available from: Agriculture Library, Agricultural Science Center - North, University of Kentucky, Lexington, Ky. 40546-0091. June 1941. (416). p. 117-138. Includes references. (NAL Call No.: DNAL 100 K41 (2)).

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Effect of mastitis on proteolytic activity in bovine milk.

JDSCAE. Saeman, A.I. Verdi, R.J.; Galton, D.M.; Barbano, D.M. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Feb 1988. v. 71 (2). p. 505-512. Includes references. (NAL Call No.: DNAL 44.8 J822).

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The effect of oral antibiotic administration on the excretion of salmonellas by chickens.

Smith, H.W. Barrow, P.A.; Tucker, J.F. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 88-90. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

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Effect of the antibiotic thiopeptin on Clostridium perfringens and growth and feed efficiency of broiler chicks.

Stutz, M.W. POSCA. Johnson, S.L.; Judith, F.R.; Muir, L.A. Champaign : Poultry Science Association. Poultry science. Aug 1983. v. 62 (8). p. 1633-1638. Includes references. (NAL Call No.: 47.8 AM33P).

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Effect of three routes of spectinomycin injection in neonatal turkeys with mixed bacterial contamination.

Christensen, V.L. Brewer, C.E. Champaign, Ill., Poultry Science Association. Poultry science. May 1981. v. 60 (5). p. 1092-1093. ill. 4 ref. (NAL Call No.: 47.8 AM33P).

1681

The effect of treatments of cecal contents on their protective properties against Salmonella in poult.

AVDIA. Reid, C.R. Barnum, D.A. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1985. v. 29 (1). p. 1-11. Includes 14 references. (NAL Call No.: DNAL 41.8 AV5).

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The effect of washing on the aerobic bacterial flora of the stallion's penis.

Jones, R.L. Squires, E.L.; Slade, N.P.; Pickett, B.W.; Voss, J.L. Manhattan : The Association. Proceedings of the ... annual convention - American Association of Equine Practitioners. 1984 (pub. 1985). (30th). p. 9-16. Includes 12 references. (NAL Call No.: DNAL SF601.A46).

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Effects of a selective regimen of dry cow therapy on intramammary infection and on antibiotic sensitivity of surviving pathogens.

Schultze, W.D. JDSCA. Champaign : American Dairy Science Association. Journal of dairy science. Apr 1983. v. 66 (4). p. 892-903. Includes references. (NAL Call No.: 44.8 J822).

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Effects of aflatoxin ingestion on the development of Moraxella bovis infectious bovine keratoconjunctivitis (Calves).

Pugh, G.W. Jr. Richard, J.L.; Kopecky, K.E.; McDonald, T.J. Ithaca, N.Y. : Cornell Veterinarian, Inc. Cornell veterinarian. Apr 1984. v. 74 (2). p. 96-110. ill. Includes references. (NAL Call No.: 41.8 C81).

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Effects of atmospheric ammonia on young pigs experimentally infected with Bordetella bronchiseptica.

Drummond, J.G. Curtis, S.E.; Meyer, R.C.; Simon, J.; Norton, H.W. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. June 1981. v. 42 (6). p. 963-968. ill. 22 ref. (NAL Call No.: 41.8 AM3A).

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Effects of cage contamination with coccidia and salmonella on acute salmonellosis in young chickens.

AVDIA. Kosugi, Y. Baba, E.; Fukata, T.; Arakawa, A. Kennett Square, Pa. : American Association of Avian Pathologists. Avian

diseases. Apr/June 1986. v. 30 (2). p. 313-318. Includes 7 references. (NAL Call No.: DNAL 41.8 AV5).

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Effects of kanamycin administration to poultry on the interspecies transmission of drug-resistant Salmonella.

POSCAL. Gast, R.K. Stephens, J.F.; Foster, D.N. Champaign, Ill. : Poultry Science Association. Poultry science. May 1988. v. 67 (5). p. 699-706. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effects of kanamycin administration to poultry on the proliferation of drug-resistant Salmonella.

POSCAL. Gast, R.K. Stephens, J.F. Champaign, Ill. : Poultry Science Association. Poultry science. May 1988. v. 67 (5). p. 689-698. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

1689

Effects of premilking udder hygiene on environmental bacterial contamination, sediment, and iodine residue in milk.

Galton, D.M. Stillwater, Okla. : The Association. Proceedings ... annual convention - American Association of Bovine Practitioners. Literature review. 1984 (pub.1985). (17th). p. 108-114. Includes references. (NAL Call No.: DNAL SF961.A5).

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Effects of premilking udder preparation practices on bacterial counts in milk and on teats.

JDSCAE. Galton, D.M. Petersson, L.G.; Merrill, W.G. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Jan 1986. v. 69 (1). p. 260-266. Includes 23 references. (NAL Call No.: DNAL 44.8 J822).

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Effects of transportation, surgery, and antibiotic therapy in ponies infected with Salmonella.

Owen, R.R. AJVRA. Fullerton, J.; Barnum, D.A. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Jan 1983. v. 44 (1). p. 46-50. ill. Includes references. (NAL Call No.: 41.8 AM3A).

1692

Effects of tylosin feeding on the antibiotic resistance of selected gram-positive bacteria in pigs.

Christie, P.J. AJVRA. Davidson, J.N.; Novick, R.P.; Dunny, G.M. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Jan 1983. v. 44 (1). p. 126-128. Includes references. (NAL Call No.: 41.8 AM3A).

1693

Effects of vaccination of calves against induced Haemophilus somnus pneumonia.

AJVRAH. Groom, S.C. Little, P.B. Schaumburg, Ill. : American Veterinary Medical Association. Abstract: The efficacy of a killed whole-cell Haemophilus somnus bacterin against induced H somnus pneumonia was examined in 10-week-old male calves. Twenty calves were assigned to 1 of the 3 following groups: group 1, nonvaccinated controls (n = 4); group 2, vaccinated once (n = 8); and group 3, vaccinated twice 14 days apart (n = 8). The serum antibody response to vaccination and challenge exposure was evaluated by the bacterial agglutination test and solid-phase immunoassay (SPIA). Vaccinating calves twice, 14 days apart, significantly (P less than 0.05) reduced the severity of clinical signs of pneumonia and gross lesions. Deaths occurred in 1 of 4 non-vaccinated controls, 1 calf vaccinated once, and none of the calves vaccinated twice, 14 days apart. Postvaccination bacterial agglutination titers measured 14 days after the final vaccination were not significantly different between groups 2 and 3, but SPIA titers were significantly (P less than 0.05) higher in groups 2 and 3, compared with those in group 1. The less severe clinical signs of pneumonia observed in group-3 calves, compared with those in calves in groups 1 and 2, were significantly (P less than 0.01) correlated to higher SPIA titers, indicating the protective value of vaccinating twice. American journal of veterinary research. June 1988. v. 49 (6). p. 793-800. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1694

Efficacies of mixtures of disinfectants and insecticides.

POSCAL. Geden, C.J. Edwards, T.D.; Arends, J.J.; Axtell, R.C. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1987. v. 66 (4). p. 659-665. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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1695

Efficacy of *Corynebacterium pseudotuberculosis* bacterin for the immunologic protection of sheep against development of caseous lymphadenitis.

AJVRAH. LeaMaster, B.R. Shen, D.T.; Gorham, J.R.; Leathers, C.W.; Wells, H.D. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. May 1987. v. 48 (5). p. 869-872. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Efficacy of the API Staph-Ident system for identification of *Staphylococcus* species from milk.

AJVRAH. Jasper, D.E. Infante, F.; Dellinger, J.D. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1985. v. 46 (6). p. 1263-1267. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Emergence of antibiotic-resistant *Salmonella agona* in horses in Kentucky.

JAVMA4. Donahue, J.M. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Mar 15, 1986. v. 188 (6). p. 592-594. Includes 17 references. (NAL Call No.: DNAL 41.8 AM3).

1698

Endometrial levels of amikacin in the mare after intrauterine infusion of amikacin sulfate (Aminoglycoside antibiotic, equine metritis).

Caudle, A.B. THGNB. Purswell, B.J.; Williams, D.J.; Brooks, P.; Rourke, J.E. Los Altos : Geron-X. Theriogenology. Mar 1983. v. 19 (3). p. 433-439. ill. Includes references. (NAL Call No.: QP251.A1T5).

1699

Endotoxemia in horses: Protection provided by antiserum to core lipopolysaccharide.

AJVRAH. Morris, D.D. Whitlock, R.H.; Corbeil, L.B. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Mar 1986. v. 47 (3). p. 544-550. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1700

Environmental effects on mastitis and milk quality (Dairy cows, bacterial contamination, free stall housing).

Jarrett, J.A. Philadelphia, Pa. : W.B. Saunders. The veterinary clinics of North America. July 1984. Paper presented at the "Symposium on Bovine Mastitis," July 1984. v. 6 (2). p. 371-375. ill. Includes references. (NAL Call No.: SF601.V534).

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Epidemiology of *Campylobacter* infections.

Blaser, M.J. Taylor, D.N.; Feldman, R.A. Boca Raton, Fla. : CRC Press, c1984. *Campylobacter* infection in man and animals / editor, Jean-Paul Butzler. p. 143-161. Includes 119 references. (NAL Call No.: DNAL QR201.C25C35).

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Equine uterine cultures: technique and aerobic bacteriological evaluation. II.

Messick, J.B. Lawrenceville, N.J. : Veterinary Learning Systems Co. Veterinary technician. July/Aug 1982. v. 3 (4). p. 203-210. ill. Includes references. (NAL Call No.: DNAL SF406.A5).

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Evaluating mastitis in the dairy herd.

Bowers, K.A. Lawrenceville, N.J. : Veterinary Learning Systems Co. Veterinary technician. July/Aug 1982. v. 3 (4). p. 187-191, 194. ill. Includes references. (NAL Call No.: DNAL SF406.A5).

1704

Evaluation of inactivated *Mycoplasma gallisepticum* oil-emulsion bacterins for protection against airsacculitis in broilers (Chicks).

Yoder, H.W. Jr. Hopkins, S.R.; Mitchell, B.W. Kennett Square : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1984. v. 28 (1). p. 224-234. Includes references. (NAL Call No.: 41.8 AV5).

1705

Evaluation of procedures to disperse inoculated *Salmonella* in poultry feeds.

Cox, N.A. Bailey, J.S.; Thomson, J.E. Champaign, Ill. : Poultry Science Association. Poultry science. Feb 1982. v. 61 (2). p. 382-384. ill. Includes 10 ref. (NAL Call No.: 47.8 AM33P).

1706

Evaluation of protection against colonization of the chicken trachea following administration of *Mycoplasma gallisepticum* bacterin.

AVDIA. Talkington, F.D. Kleven, S.H. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1985. v. 29 (4). p. 998-1003. Includes 13 references. (NAL Call No.: DNAL 41.8 AV5).

1707

Evaluation of protection against *Mycoplasma gallisepticum* infection in chickens vaccinated with the F strain of *M. gallisepticum*.

AVDIA. Cummings, T.S. Kleven, S.H. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1986. v. 30 (1). p. 169-171. Includes references. (NAL Call No.: DNAL 41.8 AV5).

1708

Evaluation of relationship among three purified antigens from *Pasteurella multocida* strain P-1059 and of their protective capacities in turkeys.

AJVRAH. Tsuji, M. Matsumoto, M. Schaumburg, Ill. : American Veterinary Medical Association. Three antigens were prepared from *Pasteurella multocida* strain P-1059, and their immunogenicity and antigenic relationships were investigated. The 3 antigens were a soluble antigen purified from a 2.5% NaCl extract (2.5S), a similar antigen purified from an extract in 0.3% formalin solution containing 0.85% NaCl (FS), and lipopolysaccharide (LPS). The antigens were treated with various chemicals and enzymes to study their antigenic and immunogenic determinants. Antigenic analyses with ELISA inhibition tests indicated that 2.5S and FS were similar LPS-protein complex antigens. The 2.5S and FS antigens induced protective immunity in turkeys with high antibody titers against LPS antigen. Although LPS was a component of 2.5S and FS, LPS itself was poorly immunogenic in turkeys. The antigenicity of protein compounds in 2.5S was deteriorated by protease treatment, which, however, did not significantly diminish the protective immunogenicity. Treatment of 2.5S with sodium periodate, altering its carbohydrate moieties, decreased its immunogenicity. The immunogenicity of 2.5S also was abolished by phenol-water treatment, owing to dissociation of the LPS-protein complex. These findings suggest that a certain form of LPS-protein complex is essential for the induction of immunity against the P *multocida* infection in turkeys. American journal of veterinary research. Sept 1988. v. 49 (9). p. 1516-1521. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1709

Evaluation of serum enzymatic and biochemical changes as indicators of severity of pneumonia in calves (*Pasteurella hemolytica*).

Schmitz, J.A. Haughom, P.K.; Craig, A.M.; Gradin, J.L.; Mattson, D.E. Madison, Wis., The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. American Association of Veterinary Laboratory Diagnosticians. Oct 1979. Oct 1979. (22d). p. 95-118. ill. 14 ref. (NAL Call No.: SF771.A53A).

1710

Evaluation of turkey cecal microflora in protecting day-old poult from *Salmonella typhimurium* challenge.

Reid, C.R. AVDIA. Barnum, D.A. Kennett Square : American Association of Avian Pathologists. Avian diseases. July/Sept 1983. v. 27 (3). p. 632-643. Includes references. (NAL Call No.: 41.8 AV5).

1711

The evolving situation of swine mycobacteriosis.

Brown, J. St. Paul, Minn. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1986. p. 168-170. (NAL Call No.: DNAL 280.3409 L75A).

1712

Examination of turkey eggs, poults and brooder house facilities for *Campylobacter jejuni*.

Acuff, G.R. JFPRD. Vanderzant, C.; Gardner, F.A.; Golan, F.A. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Dec 1982. v. 45 (14). p. 1279-1281. 16 ref. (NAL Call No.: 44.8 J824).

1713

Experimental botulism (*Clostridium botulinum*) in Pekin ducks.

Notermans, S. Dufrenne, J.; Kozaki, S. College Station, Tex., American Association of Avian Pathologists. Avian diseases. July/Sept 1980. v. 24 (3). p. 658-664. 18 ref. (NAL Call No.: 41.8 AV5).

1714

Experimentally induced pneumonic pasteurellosis: dose-response relationships and protection against natural reinfection in calves.

AJVRAH. Hilwig, R.W. Songer, J.G.; Reggiardo, C. Schaumburg, Ill. : American Veterinary Medical Association. American journal of

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veterinary research. Dec 1985. v. 46 (12). p. 2585-2587. Includes 7 references. (NAL Call No.: DNAL 41.8 AM3A).

1715

Factors affecting microbial competitive exclusion in poultry.

FOTEA. Bailey, J.S. Chicago, Ill. : Institute of Food Technologists. Abstract: A technical review attempts to: (1) define factors that affect both the colonization of chickens with salmonellae and the nature and effectiveness of individual competitive-exclusion (CE) cultures (i.e., anaerobic cultures of normal intestinal adult fowl flora); and (2) show how these factors can be controlled so that the CE concept can be practically applied to reduce salmonellae contamination. Specific attention is given to factors that affect the development of an effective CE flora (CE culture source, culture conditions, minimum culture, storage, and treatment) and the susceptibility of chickens to intestinal colonization with paratyphoid salmonellae (chick age, stress, and coccidiosis). The use and effectiveness of antimicrobials also are discussed, and the choice of CE as the best alternative for reducing salmonellae in poultry is highlighted.(wz). Food technology. Based on paper presented at IFT Food Microbiology Div Prog, "Foodborne disease as influenced by colonization control of enteropathogens in poultry and livestock," at anl mtg of Inst of Food Tech, June 16-18, 1987, Las Vegas, NV. July 1987. v. 41 (7). p. 88-92. charts. Includes 57 references. (NAL Call No.: DNAL 389.8 F7398).

1716

Fate of *Listeria monocytogenes* in tissues of experimentally infected cattle and in hard salami.

APMBA. Johnson, J.L. Doyle, M.P.; Cassens, R.G.; Schoeni, J.L. Washington, D.C. : American Society for Microbiology. Abstract: Muscle, organ, and lymphoid tissues of four Holstein cows experimentally inoculated (intravenously) with *Listeria monocytogenes* were examined 2, 6, or 54 days postinoculation for the presence of the organism by direct plating and cold enrichment procedures. *L. monocytogenes* was isolated from 66% of the tissues sampled; 38% of the isolations were attributed to the use of cold enrichment. Isolation of the organism from muscle tissue was possible only with animals inoculated 2 days before slaughter. The fate of *L. monocytogenes* during the manufacture and storage of fermented hard salami made from this meat also was determined. Three sausage treatments were evaluated: (i) uninoculated control sausage, (ii) 'naturally' contaminated sausage (NC) made from meat of experimentally inoculated cow, and (iii) sausage made from beef inoculated with a laboratory culture of *L. monocytogenes* (I). Initial *Listeria* levels in NC and I sausage were 10(3) CFU/g in trial 1 and 10(4) CFU/g in trial 2. Numbers of *L. monocytogenes* decreased by approximately 1

log10 CFU/g during fermentation and decreased further during drying and refrigerated storage. Small numbers (less than or equal to 20 CFU/g) of *L. monocytogenes* were present in I and NC sausage at the end of 12 weeks of refrigerated storage; recovery of these organisms generally depended on the use of an enrichment procedure. The results indicate that *L. monocytogenes* does not multiply during the fermentation and drying processes typical of hard salami manufacture but that survival may occur if the organism is initially present at greater than or equal to 10(3) CFU/g. Applied and Environmental microbiology. Feb 1988. v. 54 (2). p. 497-501. Includes references. (NAL Call No.: DNAL 448.3 AP5).

1717

Feeding milk containing *Staphylococcus aureus* to calves.

Barto, P.B. Bush, L.J.; Adams, G.D. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Feb 1982. v. 65 (2). p. 271-274. Includes 8 ref. (NAL Call No.: 44.8 J822).

1718

Finetuning your udder health.

DHMG. Britten, A.M. Minneapolis : Miller Publishing Co. Dairy herd management. July 1984. v. 21 (7). p. 9-10, 14-15. ill. (NAL Call No.: DNAL SF191.D3).

1719

Fowl cholera: protection against *Pasteurella multocida* by Ribosome-Lipopolysaccharide vaccine.

AVDIA. Rimler, R.B. Phillips, M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1986. v. 30 (2). p. 409-415. Includes 21 references. (NAL Call No.: DNAL 41.8 AV5).

1720

Gas-liquid chromatographic differentiation between *Salmonella gallinarum* and *Salmonella pullorum* (Poultry and eggs, salmonellosis).

Richter, E.R. Burns, M.C.; Banwart, G.J.; Rheins, M.S. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1982. v. 45 (10). p. 919-922. ill. 6 ref. (NAL Call No.: 44.8 J824).

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1721

The importance of hygienic procedures in controlling mastitis (Environment of the milk cow, bacterial contamination).
Bushnell, R.B. Philadelphia, Pa. : W.B. Saunders. The veterinary clinics of North America. July 1984. Paper presented at the "Symposium on Bovine Mastitis," July 1984. v. 6 (2). p. 361-370. Includes references. (NAL Call No.: SF601.V534).

1722

Improved plastic loop protects cows.
AGREA. Mazzola, V. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Aug 1985. v. 33 (7). p. 13. ill. (NAL Call No.: DNAL 1.98 AG84).

1723

In vitro and in vivo characterization of avian Escherichia coli. I. Serotypes, metabolic activity, and antibiotic sensitivity.
AVDIA. Cloud, S.S. Rosenberger, J.K.; Fries, P.A.; Wilson, R.A.; Odor, E.M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1985. v. 29 (4). p. 1084-1093. Includes 14 references. (NAL Call No.: DNAL 41.8 AV5).

1724

In vitro and in vivo evaluations of the antibiotic efrotomycin (Clostridium perfringens, chicks).
Stutz, M.W. POSCA. Johnson, S.L.; Judith, F.R.; Miller, B.M. Champaign : Poultry Science Association. Poultry science. Aug 1983. v. 62 (8). p. 1612-1618. Includes references. (NAL Call No.: 47.8 AM33P).

1725

In vivo transfer of antibiotic resistance to a strain of Salmonella arizonae.
POSCAL. Gast, R.K. Stephens, J.F. Champaign, Ill. : Poultry Science Association. Poultry science. Feb 1986. v. 65 (2). p. 270-279. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

1726

The incidence and antibiotic susceptibility patterns of Salmonella cholerae-suis found in Missouri.
Fales, W.H. Morehouse, L.G.; Kintner, L.D.; Nelson, S.L.; Selby, L.A. Madison, Wis., The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. 1980. 1980. (23rd). p. 217-224.

4 ref. (NAL Call No.: SF771.A53A).

1727

Incidence and in vitro acquisition of transferable drug resistance in Salmonella arizonae.
POSCAL. Gast, R.K. Stephens, J.F. Champaign, Ill. : Poultry Science Association. Poultry science. May 1985. v. 64 (5). p. 882-890. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

1728

Incidence of Streptococcus zooepidemicus mastitis.
JFPRDR. Hinckley, L.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1985. v. 48 (9). p. 751-753. Includes 5 references. (NAL Call No.: DNAL 44.8 J824).

1729

Influence of Mycoplasma gallisepticum, infectious bronchitis, and cyclophosphamide on chickens protected by native intestinal microflora against Salmonella typhimurium or Escherichia coli.
Weinack, O.M. Snoeyenbos, G.H.; Smyser, C.F.; Soerjadi-Liem, A.S. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1984. v. 28 (2). p. 416-425. Includes references. (NAL Call No.: 41.8 AV5).

1730

Influence of resident Salmonella on contamination of broiler flocks.
POSCAL. Lahellec, C. Colin, P.; Bennejean, G.; Paquin, J.; Guillerme, A.; Debois, J.C. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1986. v. 65 (11). p. 2034-2039. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

1731

Influence of temperature, social, and dietary stress on development and stability of protective microflora in chickens against Salmonella typhimurium.
AVDIA. Weinack, O.M. Snoeyebos, G.H.; Soerjadi-Liem, A.S.; Smyser, C.F. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1985. v. 29 (4). p. 1177-1183. Includes 14 references. (NAL Call No.: DNAL 41.8 AV5).

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1732

Influence of the estrous cycle on selected biochemical and cytologic characteristics of milk of cows with subclinical mastitis.

Anderson, K.L.AJVRA. Smith, A.R.; Spahr, S.L.; Gustafson, B.K.; Hixon, J.E. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Apr 1983. v. 44 (4). p. 677-680. ill. Includes references. (NAL Call No.: 41.8 AM3A).

1733

Internal temperature of decomposing duck carcasses in relation to botulism.

JWIDA. Wobeser, G. Galmut, E.A. Ames, Iowa : Wildlife Disease Association. Journal of wildlife diseases. Oct 1984. v. 20 (4). p. 267-271. ill. Includes references. (NAL Call No.: DNAL 41.9 W64B).

1734

Intramammary coliform (Escherichia coli) infection after heavy external contamination of teats (Dairy cows).

Schultze, W.D. AR-BARC. Thompson, P.D. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Sept 1980. v. 41 (9). p. 1396-1401. 19 ref. (NAL Call No.: 41.8 AM3A).

1735

Introduction to antibiotics: groups and classification.

Brumbaugh, G.W. Manhattan : The Association. Proceedings of the ... annual convention of the American Association of Equine Practitioners. 1986. (32nd). p. 167-173. ill. Includes references. (NAL Call No.: DNAL SF601.A46).

1736

Investigations on the use of competitive exclusion to control Salmonella in poultry.

Pivnick, H. Barnum, D.; Stavric, S.; Gleeson, T.; Blanchfield, B. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 80-87. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

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Samberg, Y. Klinger, I. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 48-53. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

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Soerjadi, A.S. Stehman, S.M.; Snoeyenbos, G.H.; Weinack, O.M.; Smyser, C.F. College Station, Tex., American Association of Avian Pathologists. Avian diseases. July 1981. v. 25 (3). p. 706-712. 12 ref. (NAL Call No.: 41.8 AV5).

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Simmons, D.G. Rose, L.P.; Gray, J.G. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Jan/Mar 1980. v. 24 (1). p. 82-90. ill. 11 ref. (NAL Call No.: 41.8 AV5).

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PAMDD. Chengappa, M.M. Maddux, R.L.; Kadel, W.L.; Greer, S.C.; Herren, C.E. Madison, Wis. : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. 1986. (29th). p. 25-38. Includes references. (NAL Call No.: DNAL SF771.A53A).

(ANIMAL DISEASES - BACTERIAL)

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Summary of lactational therapy studies.

Boddie, R.L. Pankey, J.W.; Nickerson, S.C.; Watts, J.L. Homer, La. : The Station. Dairy research report - Louisiana Agricultural Experiment Station. 1983. p. 137-140. (NAL Call No.: DNAL SF241.L8N6).

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Morse, E.V.PAMDD. Midla, D.A.; Blessman, B.H. Madison : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. 1982. (25th). p. 99-114. Includes references. (NAL Call No.: SF771.A53A).

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Susceptibility of Bacteroides from swine abscesses to 13 antibiotics.

AJVRAH. Benno, Y. Mitsuoka, T. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Dec 1984. v. 45 (12). p. 2631-2633. Includes 25 references. (NAL Call No.: DNAL 41.8 AM3A).

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The susceptibility of chicks to Salmonella montevideo in artificially contaminated poultry feed.

Schleifer, J.H. Juven, B.J.; Beard, C.W.; Cox, N.A. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1984. v. 28 (2). p. 497-508. Includes references. (NAL Call No.: 41.8 AV5).

1823

Teat dip as a component of coliform mastitis control (Dairy cows, California).

Bennett, R.H. Ames, Iowa, International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Mar 1982. v. 2 (3). p. 110-114. Includes 13 ref. (NAL Call No.: SF221.D342).

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Brumbaugh, G.W. Manhattan : The Association. Proceedings of the ... annual convention of the American Association of Equine Practitioners. Literature review. 1986. (32nd). p. 189-194. Includes references. (NAL Call No.: DNAL SF601.A46).

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Therapy of endometritis in mares.

JAVMA. Bennett, D.G. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. June 15, 1986. v. 188 (12). p. 1390-1392. Includes 30 references. (NAL Call No.: DNAL 41.8 AM3).

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Therapy of postpartum uterine infections.

Olson, J.D. Ball, L.; Mortimer, R.G. Stillwater, Okla. : The Association. Proceedings ... annual convention - American Association of Bovine Practitioners. Literature review. 1984 (pub.1985). (17th). p. 85-88. Includes references. (NAL Call No.: DNAL SF961.A5).

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Transferable drug resistance in Escherichia coli isolated from antibiotic-fed chickens.

Scioli, C.POSCA. Esposito, S.; Anzilotti, G.; Pavone, A.; Pennuci, C. Champaign : Poultry Science Association. Poultry science. Feb 1983. v. 62 (2). p. 382-384. Includes references. (NAL Call No.: 47.8 AM33P).

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Treatment and control of equine monocytic ehrlichiosis (synonym, Potomac horse fever).

Palmer, J.E. Benson, C.E.; Whitlock, R.H. Washington, D.C. : American Society for Microbiology. Microbiology. 1986. p. 203-204. Includes references. (NAL Call No.: DNAL QR1.M56).

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Treatment of mastitis (Dairy cows, antibiotics).

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Treatment of Streptococcus agalactiae mastitis in dairy cows: Comparative efficacies of two antibiotic preparations and factors associated with successful treatment.

JAVMA. Weaver, L.D. Galland, J.; Martin, P.A.J.; Versteeg, J. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Sept 15, 1986. v. 189 (6). p. 666-669. Includes references. (NAL Call No.: DNAL 41.8 AM3).

1831

Treatment of swine dysentery with tiamulin soluble antibiotic in controlled field trials (*Treponema hyodysenteriae*).
Anderson, M.D.VTYMA. Edwardsville : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Jan 1983. v. 78 (1). p. 98, 100-101. 7 ref. (NAL Call No.: 41.8 M69).

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Treatment of turkey hatching eggs with gentamicin.
39EJA. Bagley, R.A. Davis : University of California. Proceedings - Western Poultry Disease Conference. 1979. (28th). p. 14-17. (NAL Call No.: DNAL SF995.W4).

1833

Update on postmilking teat antisepsis (Cows, mastitis, *Streptococcus agalactiae*, disinfectants).
Pankey, J.W. Cuming, A.L.; Daggett, R.D.; Eberhart, R.J.; Farnsworth, R.J. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. 1983. Literature review. 1983. (22nd). p. 52-103. Includes references. (NAL Call No.: SF967.M3N32).

1834

Use of antibiotics in stallion semen for the control of *Klebsiella pneumoniae* and *Pseudomonas aeruginosa*.
Squires, E.L. McGlothlin, D.E.; Bowen, R.A.; Berndtson, W.E.; Pickett, B.W. Wildomar : W. E. Jones. Journal of equine veterinary science. Mar/Apr 1981. v. 1 (2). p. 43-48. Includes references. (NAL Call No.: SF951.J65).

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Use of drugs other than antibiotics in treatment of uterine disease in large animals.
MVPRA. Gustafsson, B.K. Santa Barbara, Calif. : American Veterinary Publications. Modern veterinary practice. June 1985. v. 66 (6). p. 389-391. Includes 14 references. (NAL Call No.: DNAL 41.8 N812).

1836

Use of ducks as a model to study the effect of antibiotics in feed on the fecal shedding of *Salmonella*.
Latour, P.B. Barnum, D.A. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Dec 1981. v. 42 (12). p. 2105-2108. 23 ref. (NAL Call No.: 41.8 AM3A).

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Use of total and differential somatic cell counts to differentiate potentially infected from potentially non-infected quarters and cows and between herds of various levels of infection (Mastitis, milk samples).
Meek, A.H. Barnum, D.A.; Newbould, F.H.S. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1980. v. 43 (1). p. 10-14. 5 ref. (NAL Call No.: 44.8 J824).

1838

Using passive immunity to protect piglets from clostridial enterotoxemia.
Ostle, A.G. Welter, C.J. Lenexa, Kan. : Veterinary Medicine Publishing Co. Veterinary medicine. July 1987. v. 82 (7). p. 736-739. (NAL Call No.: DNAL 41.8 M69).

1839

Uterine defense mechanisms in the mare: the use of intrauterine plasma in the management of endometritis (Bacterial contamination).
Asbury, A.C. Los Altos : Geron-X. Theriogenology. Feb 1984. v. 21 (2). p. 387-393. Includes references. (NAL Call No.: QP251.A1T5).

1840

Vaccination of cows with a K99 extract to protect newborn calves against experimental enterotoxigenic colibacillosis (*Escherichia coli*).
Nagy, B. Washington, D.C., American Society for Microbiology. Infection and immunity. Jan 1980. v. 27 (1). p. 21-24. ill. 12 ref. (NAL Call No.: QR1.I57).

1841

What can the swine industry Do? (Brucellosis in Iowa).
Howe, R. Hindsdale, Ill., The Institute. Official proceedings: annual meeting - Livestock Conservation Institute. 1980. 1980. p. 92-94. (NAL Call No.: 280.3409 L75A).

1842

Whole milk extender with antibiotics to eliminate *Campylobacter fetus* from frozen bovine semen.
JDSCAE. Shin, S. Kaproth, M.; Lein, D.; Arlitsch, H.; Howe, B. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. May 1985. v. 68 (5). p. 1280-1285. Includes 14 references. (NAL Call No.: DNAL 44.8 J822).

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Adenovirus pathogenicity and cross-protection studies (Chickens).

Cowen, B. Davis, University of California. Proceedings. Western Poultry Disease Conference. 1978. 1978. (27th). p. 61-63. ill. 3 ref. (NAL Call No.: SF995.W4).

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African swine fever in neonatal pigs: passively acquired protection from colostrum or serum of recovered pigs (Virus infection).

Schlafer, D.H. Mebus, C.A.; McVicar, J.W. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. July 1984. v. 45 (7). p. 1367-1372. ill. Includes references. (NAL Call No.: 41.8 AM3A).

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African swine fever (Pork and pork products, contamination).

Conatser, G. Hindsdale, Ill., The Institute. Official proceedings: annual meeting - Livestock Conservation Institute. 1980. 1980. p. 73-79. (NAL Call No.: 280.3409 L75A).

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African swine fever (Virus, pork contamination, U. S.).

McDaniel, H.A. APHIS. Hindsdale, Ill., The Institute. Official proceedings: annual meeting - Livestock Conservation Institute. 1980. 1980. p. 99-103. map. 3 ref. (NAL Call No.: 280.3409 L75A).

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Air conditioning and television as protective factors in arboviral encephalitis risk.

AJTHA. Gahlinger, P.M. Reeves, W.C.; Milby, M.M. Lawrence : Allen Press. The American journal of tropical medicine and hygiene. May 1986. v. 35 (3). p. 601-610. Includes references. (NAL Call No.: DNAL 448.8 AM326).

1848

Analyses of frequency of infection, specific infectivity , and prionprotein biosynthesis in scrapie-infected neuroblastoma cell clones.

JOVIAM. Race, R.E. Caughey, B.; Graham, K.; Ernst, D.; Chesebro, B. Washington, D.C. : American Society for Microbiology. Scrapie, a spongiform encephalopathy of sheep and goats, is caused by a poorly understood transmissible agent in which no nucleic acid has been conclusively identified. Biochemical characterization of agent derived from animal tissues has not been precise because of the

tenacious association of the agent with tissue components. As an approach toward obtaining homogenous preparations of agent generated in vitro, we cloned scrapie-infected neuroblastoma cells. By frequency analysis, nearly every cell in expanded cultures contained scrapie agent. We also analyzed cell-dose infectivity relationships and developed a standard curve which allowed various cultures to be compared. Since a proteinase K (PK)-resistant form of a protein designated prion protein (PrP) has been found in partially purified preparations of scrapie agent from infected animal spleens and brains, we sought to identify this protein in cell cultures. No PK-resistant PrP was found in infected or uninfected cultures, although the PK-sensitive PrP was readily detected. These results suggested that PK-resistant PrP may not be an essential component of the infectious scrapie agent. Journal of virology. Aug 1988. v. 62 (8). p. 2845-2849. ill. Includes references. (NAL Call No.: DNAL QR360.U6).

1849

Animal viruses, coliphages, and bacteria in aerosols and wastewater at a spray irrigation site.

APMBA. Brenner, K.P. Scarpino, P.V.; Clark, C.S. Washington, D.C. : American Society for Microbiology. Abstract: Aerosol samples collected at the Muskegon County Wastewater Management System Number 1 spray irrigation site in Michigan by using the Army prototype XM2 Biological Sampler/Collector were examined for the presence of animal viruses, coliphages, and bacteria. Air samples, collected in Earle lactalbumen hydrolysate, and wastewater samples were filtered through a 0.45- and 1.2 micron membrane filter sandwich, pretreated with 10% beef extract (pH 7.0), and assayed for animal viruses by the plaque method on Buffalo green monkey kidney cells. Untreated air and wastewater samples were assayed for coliphages by the soft agar overlay method with three Escherichia coli hosts (ATCC 13706, 15597, and 11303) and for bacteria by the heterotrophic plate count method. Filtered air samples were assayed for coliphages by the most-probable-number method with the same three hosts. Although no animal viruses were detected in the aerosol samples, coliphages and bacteria were recovered. E. coli ATCC 13706 coliphage were recovered more often and in greater numbers than either of the other two types of coliphages. Concentrations of animal viruses, coliphages, and bacteria detected in the raw influent decreased as the wastewater was aerated and stored in the lagoons. No animal viruses were detected in the wastewater at the pump station just before distribution to the spray irrigation rigs. The most-probable-number method was more sensitive and consistent than the overlay procedure in detecting low levels of coliphages in air samples. Applied and Environmental microbiology. Feb 1988. v. 54 (2). p. 409-415. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

1850

Antibiotic resistance of fecal coliforms after long-term withdrawal of therapeutic and subtherapeutic antibiotic use in a swine herd (Tetracycline).

Langlois, B.E. APMB. Cromwell, G.L.; Stahly, T.S.; Dawson, K.A.; Hays, V.W. Washington : American Society for Microbiology. Applied and environmental microbiology. Dec 1983. v. 46 (6). p. 1433-1434. Includes references. (NAL Call No.: 448.3 AP5).

1851

Antigenic relationships among some animals rotaviruses: virus neutralization in vitro and cross protection in piglets.

Gaul, S.K. Simpson, T.F.; Woode, G.N.; Fulton, R.W. Washington, American Society for Microbiology. Journal of clinical microbiology. Sept 1982. v. 16 (3). p. 495-503. ill. 40 ref. (NAL Call No.: QR46.J6).

1852

Antigenic relationships among some bovine rotaviruses: serum neutralization and cross-protection in gnotobiotic calves.

Woode, G.N. JCMID. Kelso, N.E.; Simpson, T.F.; Gaul, S.K.; Evans, L.E. Washington : American Society for Microbiology. Journal of clinical microbiology. Aug 1983. v. 18 (2). p. 358-364. Includes references. (NAL Call No.: QR46.J6).

1853

Antimicrobial effects of Lactobacillus fermentation on edible waste material contaminated with infected carcasses.

AJVRAM. Shotts, E.B. Wooley, R.E.; Dickens, J.A. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Nov. 1984. v. 45 (11). p. 2467-2470. ill. Includes 10 references. (NAL Call No.: DNAL 41.8 AM3A).

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Biochemical and immunological characterization of the duck hepatitis B virus envelope proteins.

JOVIM. Schlicht, H.J. Kuhn, C.; Guhr, B.; Mattaliano, R.J.; Schaller, H. Washington, D.C. : American Society for Microbiology. Journal of virology. July 1987. v. 61 (7). p. 2280-2285. ill. Includes references. (NAL Call No.: DNAL QR360.J6).

1855

Biochemical characterization of an aphthovirus type C3 strain resende attenuated for cattle by serial passages in chicken embryos.

VIRLA. Sagedahl, A. Giraudo, A.T.; De Mello, P.A.; Bergmann, I.E.; La Torre, J.L.; Scodeller, E.A. Duluth, Minn. : Academic Press. Virology. Apr 1987. v. 157 (2). p. 366-374. ill. Includes references. (NAL Call No.: DNAL 448.8 V81).

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Biochemical characterization of an aphthovirus type O1 strain Campos attenuated for cattle by serial passages in chicken embryos.

VIRLA. Parisi, J.M. Costa Giomi, P.; Grigera, P.; Auge de Mello, P.; Bergmann, I.E.; La Torre, J.L.; Scodeller, E.A. New York, N.Y. : Academic Press. Virology. Nov 1985. v. 147 (1). p. 61-71. ill. Includes references. (NAL Call No.: DNAL 448.8 V81).

1857

Bluetongue research: an update.

Howard, T.H. Bowen, R.A. Columbia, Mo. : The Association, 1982. Proceedings of the ninth Technical Conference on Artificial Insemination and Reproduction : April 30-May 1, 1982, Red Carpet Hotel, Milwaukee, Wis. / spon. National Assoc. of Animal Breeders and NAAB. p. 37-39. Includes 22 references. (NAL Call No.: DNAL SF105.5.T42 1982).

1858

Development of immunity to porcine rotavirus in piglets protected from disease by bovine colostrum.

Bridger, J.C. Brown, J.F. Washington, D.C., American Society for Microbiology. Infection and immunity. Mar 1981. v. 31 (3). p. 906-910. ill. 19 ref. (NAL Call No.: QR1.I57).

1859

Duration of protection of calves against rhinovirus challenge exposure by infectious bovine rhinotracheitis virus-induced interferon in nasal secretions.

MacLachlan, N.J. Rosenquist, B.D. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Feb 1982. v. 43 (2). p. 289-293. ill. Includes 25 ref. (NAL Call No.: 41.8 AM3A).

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1860

Effect of infectious bursal disease virus on protection against Marek's disease by turkey herpesvirus vaccine.

Sharma, J.M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. July/Sept 1984. v. 28 (3). p. 629-640. Includes 19 references. (NAL Call No.: 41.8 AV5).

1861

Effect of toxicity and contamination on antibody titers to pseudorabies virus in swine.

PAMDD. Purcell, A.R. Cole, J.R.; Long, J.; Watson, C. Madison, Wis. : The Association. Proceedings of ... annual meeting - American Association of Veterinary Laboratory Diagnosticians. 1986. (29th). p. 391-400. Includes references. (NAL Call No.: DNAL SF771.A53A).

1862

Effect of tunicamycin on the development of the cytopathic effect in Sindbis virus-infected avian fibroblasts.

VIRLA. Ulug, E.T. Bose, H.R. Jr. New York, N.Y. : Academic Press. Virology. June 1985. v. 143 (2). p. 546-557. ill. Includes references. (NAL Call No.: DNAL 448.8 V81).

1863

Effects of dietary aflatoxin and ammonia-inactivated aflatoxin on Newcastle disease antibody titers in layer-breeders (Virus diseases, chickens, contaminated feed).

Boulton, S.L. Dick, J.W.; Hughes, B.L. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Jan/Mar 1982. v. 26 (1). p. 1-6. ill. Includes 12 ref. (NAL Call No.: 41.8 AV5).

1864

Embryo vaccination of specific-pathogen-free chickens with infectious bursal disease virus: tissue distribution of the vaccine virus and protection of hatched chickens against disease.

AVDIA. Sharma, J.M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1986. v. 30 (4). p. 776-780. Includes references. (NAL Call No.: DNAL 41.8 AV5).

1865

An enzyme-linked immunosorbent assay that measures protective antibody levels to Newcastle disease virus in chickens.

AVDIA. Wilson, R.A. Perrotta, C. Jr.; Frey, B.; Eckroade, R.J. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1984. v. 28 (4). p. 1079-1085. Includes 15 references. (NAL Call No.: DNAL 41.8 AV5).

1866

Experimental infection and protection of lambs with a minute plaque variant of rift valley fever virus.

AUTHA. Moussa, M.I. Abdel-Wahab, K.S.E.; Wood, O.L. Lawrence : Allen Press. The American journal of tropical medicine and hygiene. May 1986. v. 35 (3). p. 660-662. Includes references. (NAL Call No.: DNAL 448.8 AM326).

1867

Experimental infection by waterborne enteroviruses (Human viruses, porcine enteroviruses, drinking water).

Cliver, D.O. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Nov 1981. v. 44 (11). p. 861-865. 18 ref. (NAL Call No.: 44.8 J824).

1868

Expression in Escherichia coli of cDNA fragments encoding the gene for the host-protective antigen of infectious bursal disease virus.

VIRLA. Azad, A.A. Fahey, K.J.; Barrett, S.A.; Erny, K.M.; Hudson, P.J. Orlando, Fla. : Academic Press. Virology. Mar 1986. v. 149 (2). p. 190-198. ill. Includes references. (NAL Call No.: DNAL 448.8 V81).

1869

Heterologous protection against rotavirus-induced disease in gnotobiotic piglets.

JCMIDW. Bishop, R.F. Tzipori, S.R.; Coulson, B.S.; Unicom, L.E.; Albert, M.J.; Barnes, G.L. Washington, D.C. : American Society for Microbiology. Journal of clinical microbiology. Dec 1986. v. 24 (6). p. 1023-1028. ill. Includes references. (NAL Call No.: DNAL QR46.J6).

1870

How long will a killed IBR vaccine protect against challenge?

Sibbel, R.L. Bass, E.P.; Thomas, P.C. Lenexa, Kan. : Veterinary Medicine Publishing Co. Veterinary medicine. Jan 1988. v. 83 (1). p. 90-93. Includes references. (NAL Call No.: DNAL 41.8 M69).

1871

Identification of Marek's disease virus nuclear antigen in latently infected lymphoblastoid cells.

JOVIAM. Wen, L.T. Tanaka, A.; Nonoyama, M. Washington, D.C. : American Society for Microbiology. A new Marek's disease virus (MDV) nuclear antigen (MDNA) was identified in two MDV-transformed T-lymphoblastoid cell lines, MKT-1 and MSB-1, derived from chickens bearing tumors induced by MDV. This MDNA was not detected in MSB-1 cells maintained in iododeoxyuridine, which activates the latent MDV genome. Moreover, it was not found in chicken embryo fibroblasts undergoing productive and cytolytic embryo fibroblasts productively infected with the pathogenic RBIB strain or the nonpathogenic CV-1 strain of MDV did not express this antigen. DNA-protein immunoprecipitation studies revealed that MDNA bound to two sites in the 190,00-base-pair (bp) MDV genome. One of these loci identified by MDNA obtained from MKT-1 and MSB-1 cells corresponded to a 476-bp segment within the short unique region of BamHI-A MDV DNA. A second locus located in a 280-bp segment within the short inverted repeat region of BamHI-A was also identified by MDNA from MSB-1 cells but not by MDNA obtained from MKT-1 cells. Analyses of the nucleotide sequence by DNase digestion showed that MDNA protected a 60-bp segment spanning a 22-bp palindromic sequence of the short unique region and a 103-bp sequence encompassing a 32-bp palindrome in the short inverted repeat region of BamHI-A MDV DNA. Journal of virology. Oct 1988. v. 62 (10). p. 3764-3771. ill. Includes references. (NAL Call No.: DNAL QR360.J6). Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1872

Immune response of pregnant heifers and cows to bovine rotavirus inoculation and passive protection to rotavirus infection in newborn calves fed colostrum antibodies or colostrum lymphocytes.

AJVRAH. Archambault, D. Morin, G.; Elazhary, Y.; Roy, R.S.; Joncas, J.H. Schaumburg, Ill. : American Veterinary Medical Association. The efficacy of an adjuvanted bovine rotavirus vaccine in pregnant cattle (15 heifers and 2 cows) was studied. Each of 4 animals was inoculated IM at 8, 5, and 2 weeks before parturition with a water-in-oil emulsion containing live purified bovine rotavirus, mineral oil, and a mannide oleate compound. Four other animals were treated identically, except that muramyl dipeptide was added to the

virus preparation. Five additional animals were inoculated orally at the same time intervals with adjuvant-free viral suspension, and 4 other pregnant animals inoculated only with buffer served as uninoculated controls. Kinetic studies of the specific immune responses were determined by quantification of the rotavirus-neutralizing antibodies and by a rotavirus lymphocyte stimulation test in vitro. Results showed that only the emulsions induced marked enhancement of rotavirus antibody titers in the serum, colostrum, and milk of inoculated cows. Colostral and milk lymphocytes isolated from these cows had a positive in vitro proliferative response to rotavirus stimulation, which lasted at least 21 days after parturition. The values of the stimulation index obtained with the colostral/milk lymphocytes were higher than those of the blood lymphocytes, reflecting increased lymphocyte activity in the colostrum/milk. However, addition of muramyl dipeptide to the emulsion preparation did not exert any potentiating effect on the immune response to rotavirus. Calves fed for the first 5 days after birth with a rotavirus-immune cell-free colostrum supplement were protected from a rotavirus challenge exposure on the third day after birth. Virus was not detectable in their feces. In contrast, calves inoculated orally with 10(7) day-1 colostral mononuclear cells, obtained from cows inoculated with either emulsion, and challenge exposed 24 hours later shed rotavirus particles in their feces. However, these calves excreted virus for a shorter time, compared with controls. It was concluded that t. American journal of veterinary research. July 1988. v. 49 (7). p. 1084-1091.

1873

Immunological analysis of host and agent effects on Creutzfeldt-Jakob disease and scrapie prion proteins.

JOVIAM. Bockman, J.M. Kingsbury, D.T. Washington, D.C. : American Society for Microbiology. Creutzfeldt-Jakob disease (CJD) and scrapie are degenerative neurological diseases caused by unusual infectious pathogens. The term prion has been introduced to underscore the apparent distinctness of these agents from viruses and viroids. The only macromolecule shown to be associated with the infectious agent, the CJD or scrapie prion protein (PrPCJD or PrPSc, respectively), is encoded by the same gene as a normal cellular protein. In several studies biochemical differences have been reported in PrPScs derived from a common host species infected with different putative strains of the scrapie agent, suggesting agent-specific characteristics independent of the host. We analyzed various agent-host combinations by Western blotting of PrPs that were separated by size or charge. The profile of immunoreactive proteins for CJD prions isolated from mice, guinea pigs, and humans appeared distinct. Importantly, PrPCJDs purified from a human brain and from the corresponding first-passage mouse brains were clearly distinguishable. PrPCJDs isolated from CJD prions propagated in

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NAMRU or B10.Q mice, which are homozygous for a short-incubation-time gene; from the short-incubation-time backcross progeny of (B10.Q X I/LnJ)F1 X B10.Q; or from NAMRU mice inoculated with I/LnJ prions were identical to each other but distinguishable from those of I/LnJ mice, which are homozygous for the long-incubation-time gene. The PrPs from human CJD and ovine scrapie propagated in the same mouse strain appeared the same, but they were distinct from the same isolate of scrapie passaged in hamsters. Lastly, PrPScs purified from five different strains of scrapie propagated in C57BL mice were identical, including strains, ME7 and 139A, which were previously reported to be distinct. This evidence does not support, although it does not exclude, agent-mediated characteristics independent of host-mediated ones for scrapie and CJD. *Journal of virology*. Sept 1988. v. 62 (9). p. 3120-3127. ill. Includes references. (NAL Call No.: DNAL QR360.J6).

1874

Importance of ovine cytotoxic T cells in protection against bluetongue virus infection.
Jeggo, M.H. Wardley, R.C.; Brownlie, J. New York : A.R. Liss, 1985. Bluetongue and related orbiviruses : proceedings of an international symposium held at the Asilomar Conference Center, Monterey, California, January 16-20, 1984 / editors, T. Lynwood Barber, M.M. Joch. p. 477-487. ill. Includes references. (NAL Call No.: DNAL SF809.B55B49).

1875

Industry seeks information to protect Georgia poultry (Avian influenza).
Atlanta, Ga. : Department of Agriculture. Farmers & consumers market bulletin. Feb 22, 1984. v. 70 (8). p. 1, 12. (NAL Call No.: 280.39 G292).

1876

Investigation of dams and their offspring inoculated with a vaccine contaminated by bovine viral diarrhea virus (Cows).
Lohr, C.H. VTYMA. Evermann, J.F.; Ward, A.C. Edwardsville : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Aug 1983. v. 78 (8). p. 1263-1266. Includes references. (NAL Call No.: 41.8 M69).

1877

Isolation of a capsid protein of bluetongue virus that induces a protective immune response in sheep.
VIRLA. Huismans, H. Van Der Walt, N.T.; Cloete, M.; Erasmus, B.J. Duluth, Minn. : Academic Press. *Virology*. Mar 1987. v. 157 (1). p. 172-179. ill. Includes references. (NAL Call No.: DNAL 448.8 V81).

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Elmubarak, A.K. Sharma, J.M.; Witter, R.L.; Sanger, V.L. Schaumburg, Ill., American Veterinary Medical Association. *American journal of veterinary research*. Apr 1982. v. 43 (4). p. 740-742. Includes 22 ref. (NAL Call No.: 41.8 AM3A).

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Barlough, J.E. Berry, E.S.; Skilling, D.E.; Smith, A.W. Princeton Junction, N.J. : Veterinary Learning Systems. *The Compendium on continuing education for the practicing veterinarian. Literature review*. Oct 1986. v. 8 (10). p. F75-F83. ill. Includes references. (NAL Call No.: DNAL SF601.C66).

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Milk of dairy cows frequently contains a leukemogenic virus (Bovine leukemia virus, lambs).
Ferrer, J.F. Kenyon, S.J.; Gupta, P. Washington, D.C., American Association for the Advancement of Science. *Science*. Aug 28, 1981. v. 213 (4511). p. 1014-1016. 25 ref. (NAL Call No.: 470 SCI2).

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Nutrition and management of early-weaned pigs: diets for protecting rotavirus-exposed pigs weaned at 1 to 5 days of age.
Lecce, J.G. King, M.W. Champaign, Ill., American Society of Animal Science. *Journal of animal science*. Sept 1981. v. 53 (3). p. 677-682. 18 ref. (NAL Call No.: 49 J82).

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Partial protection against Marek's disease in chickens immunized with glycoproteins gB purified from turkey-herpesvirus-infected cells by affinity chromatography coupled with monoclonal antibodies.
AVDIA. Ono, K. Takashima, M.; Ishikawa, T.; Hayashi, M.; Yoshida, I.; Konobe, T.; Ikuta, K.; Nakajima, K.; Ueda, S.; Kato, S. Kennett Square, Pa. : American Association of Avian Pathologists. *Avian diseases*. Apr/June 1985. v. 29 (2). p. 533-539. ill. Includes 10 references. (NAL Call No.: DNAL 41.8 AV5).

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Partial protection of calves against parainfluenza-3 virus infection by nasal-secretion interferon induced by infectious bovine rhinotracheitis virus.
 Cummins, J.M. Rosenquist, B.D. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Aug 1982. v. 43 (8). p. 1334-1338. 16 ref. (NAL Call No.: 41.8 AM3A).

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Passive immunity to bovine rotavirus infection associated with transfer of serum antibody into the intestinal lumen.

JOVIAM. Besser, T.E. Gay, C.C.; McGuire, T.C.; Evermann, J.F. Washington, D.C. : American Society for Microbiology. Abstract: The effect of circulating passive antibody on immunity to bovine rotavirus infections in neonatal calves was investigated. In the first experiment, rotavirus antibody titers in the small intestinal lumina of 5- and 10-day-old calves with a wide range of serum rotavirus antibody titers were determined. Neutralizing antibody was present in the small intestinal lumina in titers that correlated with the calves' serum titers ($r = +0.84$, P less than 0.01). Immunoglobulin G1 was the predominant isotype of intestinal luminal rotavirus antibody. Calves not fed colostrum during the absorptive period lacked rotavirus antibody in circulation and in the intestinal lumen at 7 days of age, even when they were fed large volumes of colostrum with a high rotavirus antibody titer at 48 h after birth. Therefore, rotavirus antibody is not retained in the intestinal lumen for 5 days following a colostrum meal, and the luminal antibody in the 5- and 10-day-old seropositive calves were probably derived from circulating antibody. In a second experiment, calves were passively immunized by subcutaneous injection of colostrum whey with a high immunoglobulin G1 rotavirus antibody titer and challenged with virulent bovine rotavirus 48 h later. The passively immunized calves were protected from rotavirus infection and diarrhea compared with calves with comparable serum immunoglobulin concentrations but with lower serum rotavirus antibody titers. The results of these experiments indicate that circulating immunoglobulin G1 antibody appears in the gastrointestinal tract of neonatal calves and that circulating rotavirus antibody can prevent infection and diarrhea after rotavirus challenge. Journal of virology. July 1988. v. 62 (7). p. 2238-2242. Includes references. (NAL Call No.: DNAL QR360.J6).

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Passive protection of mice and sheep against bluetongue virus by a neutralizing monoclonal antibody.

Letchworth, G.J. IIIINFIB. Appleton, J.A. Washington : American Society for Microbiology. Infection and immunity. Jan 1983. v. 39 (1). p. 208-212. 23 ref. (NAL Call No.: QR1.157).

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Pathogenicity and cross-protection of pigeon paramyxovirus-1 and Newcastle disease virus in young chickens.

AVDIA. Gelb, J. Jr. Fries, P.A.; Peterson, F.S. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. July/Sept 1987. v. 31 (3). p. 601-606. Includes references. (NAL Call No.: DNAL 41.8 AV5).

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Protecting chickens against Marek's disease.

AGREA. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Feb 1988. v. 36 (2). p. 16. (NAL Call No.: DNAL 1.98 AG84).

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Protection between different serotypes of bovine rotavirus in gnotobiotic calves: specificity of serum antibody and coproantibody responses.

JCMIDW. Woode, G.N. Zheng, S.; Rosen, B.I.; Knight, N.; Kelso Gourley, N.E.; Ramig, R.F. Washington, D.C. : American Society for Microbiology. Journal of clinical microbiology. June 1987. v. 25 (6). p. 1052-1058. ill. Includes references. (NAL Call No.: DNAL QR46.J6).

1889

Protection by vaccination against bovine leukemia virus infection in sheep.

Onuma, M. Hodatsu, T.; Yamamoto, S.; Higashihara, M.; Masu, S. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1984. v. 45 (6). p. 1212-1215. ill. Includes references. (NAL Call No.: 41.8 AM3A).

1890

Protection of calves against rhinovirus infection by nasal secretion interferon induced by infectious bovine rhinotracheitis virus.

Cummins, J.M. AR. Rosenquist, B.D. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Feb 1980. v. 41 (2). p. 161-165. ill. 23 ref. (NAL Call No.: 41.8 AM3A).

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Protection of chickens from lethal influenza infection by vaccinia-expressed hemagglutinin.

VIRLA. Chambers, T.M. Kawaoka, Y.; Webster, R.G. Duluth, Minn. : Academic Press. Virology. Dec 1988. v. 167 (2). p. 414-421. Includes references. (NAL Call No.: DNAL 448.8 V81).

(ANIMAL DISEASES - VIRAL)

1892

Protection of mice and swine from pseudorabies virus-induced mortality by administration of pseudorabies virus-specific mouse monoclonal antibodies.

AJVRAH. Marchioli, C. Yancey, R.J. Jr.; Timmins, J.G.; Post, L.E.; Young, B.R.; Povendo, D.A. Schaumburg, Ill. : American Veterinary Medical Association. Abstract: Hybridomas were selected for secretion of monoclonal antibodies directed against pseudorabies virus (PRV) glycoproteins. Each monoclonal antibody was capable of neutralizing PRV in vitro in the presence of complement. This panel of antibodies was used in passive immunization studies to protect mice and swine from PRV-induced mortality. The most protective antibody in mice was 3A4, specific for PRV glycoprotein gp50, which afforded as high as 100% protection. Although antibody 3A4 was partially protective in swine, antibody 3D11, which is specific for PRV glycoprotein gIII, afforded greater protection-83% protection when ascitic fluid was used and 100% protection when immunoglobulin concentrated from cell cultures was used at a dose of 150 mg/pig. These studies demonstrated that monoclonal antibodies may be useful for short-term prophylaxis against PRV-induced disease and that antibody directed against either PRV glycoprotein gIII or gp50 is sufficient to protect animals from PRV-induced mortality. American journal of veterinary research. June 1988. v. 49 (6). p. 860-864. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1893

Protection of newborn calves against bovine virus diarrhea by vaccinating their dams prior to parturition.

Sanders, D.E. Sanders, J.A.; Sangenaro, J. Jr. Santa Barbara : Veterinary Practice Publishing Company. Agri-Practice. Nov/Dec 1983. v. 4 (10). p. 30-34. Includes references. (NAL Call No.: SF601.B6).

1894

Protective efficacy of Marek's disease virus (MDV) CVI-988 CEF65 clone C against challenge infection with three very virulent MDV strains.

AVDIA. Boer, G.F. de Groenendal, J.E.; Boerrigter, H.M.; Kok, G.L.; Pol, J.M.A. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Apr/June 1986. v. 30 (2). p. 276-283. Includes 25 references. (NAL Call No.: DNAL 41.8 AV5).

1895

Prototypes of protective vaccination in broilers against Newcastle disease in endemic regions.

39EJA. El-Zein, A. Manasfi, M.; Butrous, S. Davis : University of California. Proceedings - Western Poultry Disease Conference. 1987.

(36th). p. 77-80. Includes references. (NAL Call No.: DNAL SF995.W4).

1896

Reduced vaccinal protection of turkey herpesvirus against field strains of Marek's disease herpesvirus.

Eidson, C.S. Ellis, M.N.; Kleven, S.H. Champaign, Ill., Poultry Science Association. Poultry science. Feb 1981. v. 60 (2). p. 317-322. 21 ref. (NAL Call No.: 47.8 AM33P).

1897

Residual and topical toxicity of various insecticides to the lesser mealworm (Coleoptera:Tenebrionidae) (Alphitobius diaperinus, poultry, avian leukosis, stored products pest).

Vaughan, J.A. Turner, E.C. Jr. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1984. v. 77 (1). p. 216-220. Includes references. (NAL Call No.: 421 J822).

1898

Role of thymus-dependent immune system in HVT (herpesvirus of turkeys) protection against Marek's disease.

Gupta, S.K. Kharole, M.U.; Kalra, D.S. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Jan/Mar 1982. v. 26 (1). p. 7-13. ill. Includes 14 ref. (NAL Call No.: 41.8 AV5).

1899

Serologic and cross-protection studies with several infectious bronchitis virus isolates from Delmarva (Delaware, Maryland, Virginia)-reared broiler chickens.

Gelb, J. Jr. Perkins, B.E.; Rosenberger, J.K.; Allen, P.H. College Station, Tex., American Association of Avian Pathologists. Avian diseases. July 1981. v. 25 (3). p. 655-666. ill. 17 ref. (NAL Call No.: 41.8 AV5).

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A standardized enzyme-linked immunosorbent assay for infectious bronchitis virus: comparison with hemagglutination-inhibition and virus-neutralization assays for measuring protective antibody levels in chickens.

AVDIA. Perrotta, C. Furtek, C.; Wilson, R.A.; Cowen, B.S.; Eckroade, R.J. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. July/Sept 1988. v. 32 (3). p. 451-460. Includes references. (NAL Call No.: DNAL 41.8 AV5).

1901

Temporary protection of calves against adenovirus infection by nasal secretion interferon induced by infectious rhinotracheitis virus.

Cummins, J.M. Rosenquist, B.D. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. June 1982. v. 43 (6). p. 955-959. Includes 19 ref. (NAL Call No.: 41.8 AM3A).

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Sutjipto, S. Simmons, D.G. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. Mar 1981. v. 42 (3). p. 491-494. ill. 25 ref. (NAL Call No.: 41.8 AM3A).

1903

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Biront, P. Leunen, J. Boston : Martinus Nijhoff. Developments in veterinary virology. In the series analytic: Classical swine fever and related viral infections / edited by B. Liess.~ Literature review. 1988. v. 5. p. 181-200. Includes references. (NAL Call No.: DNAL SF780.4.D48).

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Sharma, J.M. AR-NC. Davis, University of California. Proceedings. Western Poultry Disease Conference. 1978. (27th). p. 49. (NAL Call No.: SF995.W4).

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Van Vleet, J.F. Schaumburg, Ill., American Veterinary Medical Association. American journal of veterinary research. June 1982. v. 43 (6). p. 1043-1055. ill. Includes 18 ref. (NAL Call No.: 41.8 AM3A).

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Antifertility effects of dithiocarbamates in laying hens.

Weppelman, R.M. Long, R.A.; Van Iderstine, A.; Taylor J.E.; Tolman, R.L.; Peterson, L.; Olson, G. Champaign, Ill., Society for the Study of Reproduction. Biology of reproduction. Aug 1980. v. 23 (1). p. 40-46. ill. 15 ref. (NAL Call No.: QL876.B5).

1907

Cardio-protective effects of exogenous corticosterone in turkey poults fed furazolidone.

MXMRA. Czarnecki, C.M. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1984. (30). p. 66-70. Includes references. (NAL Call No.: DNAL S1.M52).

1908

Control of common respiratory diseases in young pigs through proper management (Antibiotics, vaccines, stress).

Jones, D.U. Santa Barbara, Calif. : Veterinary Practice Publishing Company. Agri-Practice. Mar 1984. v. 5 (3). p. 17, 20-22, 24. Includes references. (NAL Call No.: SF601.B6).

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The definition of the biochemical changes associated with the paramount signs of experimental edema disease in swine / by John Andrew Pickrell. -

Pickrell, John Andrew, 1941-. 1968. Thesis (Ph.D)--University of Illinois, 1968. Photocopy. Ann Arbor, Mich. : University Microfilms, 1970. vi, 102 leaves : ill. ; 21 cm. Bibliography: leaves 54-60. (NAL Call No.: DISS 69-10,818).

1910

Effect of streptozotocin-induced diabetes in primiparous swine on subsequent reproductive performance.

JANSAG. Ezekwe, M.O. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Apr 1986. v. 62 (4). p. 1005-1011. Includes references. (NAL Call No.: DNAL 49 J82).

1911

Effects of feed restriction, sex and diethylstilbestrol on the occurrence of joint lesions with sme histological and biochemical studies of the articular cartilage of growing-finishing swine.

Nakano, T. Aherne, F.X. Ottawa, Agricultural Institute of Canada. Canadian journal of animal science. Sept 1979. v. 59 (3). p. 491-502. ill. Bibliography p. 501-502. (NAL Call No.: 41.8 C163).

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Effects of social stress on the toxicity of malathion in young chickens.

AVDIA. Brown, C. Gross, W.B.; Ehrich, M. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1986. v. 30 (4). p. 679-682. Includes references. (NAL Call No.: DNAL 41.8 AV5).

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JONUA. Edwards, H.M. Jr. Bethesda, Md. : American Institute of Nutrition. The Journal of nutrition. May 1987. v. 117 (5). p. 964-969. Includes references. (NAL Call No.: DNAL 389.8 J82).

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Gunson, D.E. Kowalczyk, D.F.; Shoop, C.R.; Ramberg, C.F. Jr. Schaumburg, Ill., The Association. Journal of the American Veterinary Medical Association. Feb 1, 1982. v. 180 (3). p. 295-299. ill. Includes 20 ref. (NAL Call No.: 41.8 AM3).

1915

Eosinophilic myositis and muscular sarcocystosis in the carcasses of slaughtered cattle and lambs.

AJVRAH. Jensen, R. Alexander, A.F.; Dahlgren, R.R.; Jolley, W.R.; Marquardt, W.C.; Flack, D.E.; Bennett, B.W.; Cox, M.F.; Harris, C.W.; Hoffmann, G.A.; Troutman, S.; Hoff, R.L. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Mar 1986. v. 47 (3). p. 587-593. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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DeBowes, R.M. Grant, B.D.; Sande, R.D. Wildomar : W. E. Jones. Journal of equine veterinary science. Jan/Feb 1982. v. 2 (1). p. 23-26. ill. Includes references. (NAL Call No.: SF951.J65).

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Olson, W.G. Dziuk, H.E.; Walsen, M.M.; Hanlon, G.F.; Waibel, P.E.; Stevens, J.B.; Jorgensen, N.A. College Station, Tex., American Association of Avian Pathologists. Avian diseases. Apr/June 1981. v. 25 (2). p. 550-554. 12 ref. (NAL Call No.: 41.8 AV5).

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Bilezikian, J.P. Loeb, J.N.; Gammon, D.E. Champaign, Ill., Poultry Science Association. Poultry science. Mar 1980. v. 59 (3). p. 628-634. ill. Bibliography p. 633-634. (NAL Call No.: 47.8 AM33P).

1920

Influence of dietary tetramethylthiuram disulfide (a fungicide) on growth and incidence of tibial dyschondroplasia in single comb White Leghorn chicks.

POSCAL. Veltmann, J.R. Jr. Linton, S.S. Champaign, Ill. : Poultry Science Association.

Poultry science. June 1986. v. 65 (6). p. 1205-1207. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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VTPHAK. Embury, D.H. Jerrett, I.V. Washington, D.C. : American College of Veterinary Pathologists. Veterinary pathology. Nov 1985. v. 22 (6). p. 548-551. ill. Includes 21 references. (NAL Call No.: DNAL 41.8 P27).

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Collins, W.J. Cox, R.I. Washington, D.C.? : U.S. Dept of Agriculture, Agricultural Research Service, 1985. Forage legumes for energy-efficient animal production : proceedings of a trilateral workshop held in Palmerston North, New Zealand, April 30-May 4, 1984 / edited by Robert F. Barnes ... et al. . Literature review. p. 268-276. Includes references. (NAL Call No.: DNAL aSB203.F6).

1923

Pharmacokinetics of minocycline hydrochloride in clinically normal and hypoproteinemic sheep.

AJVRAH. Wilson, R.C. Green, N.K. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Mar 1986. v. 47 (3). p. 650-652. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Johnson, D.D. Davis, H.L. Bethesda, Md., The Federation. Federation proceedings. Federation of American Societies for Experimental Biology. Sept 1979. v. 38 (10). p. 2417-2423. ill. 32 ref. (NAL Call No.: 442.9 F31P).

1925

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Marple, D.N. Christian, L.L.; Judge, M.D. West Lafayette, Ind. : The Service, 1978/1985. Pork industry handbook / Purdue University, Cooperative Extension Service. PIH-26, rev., May 1985. 3 p. (NAL Call No.: DNAL SF395.P62).

(ANIMAL DISEASES - PHYSIOLOGICAL)

1926

Protective effect of nicarbazin on nutritional encephalopathy in chicks.

Bartov, I. Budowski, P. Champaign, Ill., Poultry Science Association. Poultry science. May 1979. v. 58 (3). p. 597-601. ill. 19 ref. (NAL Call No.: 47.8 AM33P).

1927

Reduced vitamin A levels of chicks feed anaerobically digested sewage sludge (Deficiency).

Kienholz, E.W. Young, N.S.K.; Smith, J.L.; Whiteman, C.A. Champaign, Ill., Poultry Science Association. Poultry science. Apr 1981. v. 60 (4). p. 844-886. 6 ref. (NAL Call No.: 47.8 AM33P).

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Chandra, M. Singh, B.; Soni, G.L.; Ahuja, S.P. Kennett Square : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1984. v. 28 (1). p. 1-11. ill. Includes references. (NAL Call No.: 41.8 AV5).

1929

Retrospective study of four years of carcass condemnation rates for malignant lymphoma in California cows.

AJVRAH. Thurmond, M.C. Lapuz, G.R.; Farver, T.B.; Mandac, G.C. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1985. v. 46 (6). p. 1387-1391. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

1930

Some fermentation products and antibiotics may help newly weaned calves to overcome stress of weaning and shipping.

Thomas, O.O. Dew, R.K. Bozeman, Mont., The Station. Research report - Montana Agricultural Experiment Station. 1981. 1981. (180). p. 26-28. ill. (NAL Call No.: S544.3.M6M6).

1931

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Henninger, R. Jones, D. Santa Barbara, Calif. : Veterinary Practice Pub. Co. Equine practice. June 1988. v. 10 (6). p. 13-16. ill. Includes references. (NAL Call No.: DNAL SF951.E62).

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MVPRA. Rings, D.M. Santa Barbara, Calif. : American Veterinary Publications. Modern veterinary practice. Literature review. Aug 1985. v. 66 (8). p. 523-526. Includes 36 references. (NAL Call No.: DNAL 41.8 N812).

1933

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ENVRA. Spear, P.A. Moon, T.W. Orlando, Fla. : Academic Press. Environmental research. June 1986. v. 40 (1). p. 188-198. Includes references. (NAL Call No.: DNAL RA565.A1E5).

1934

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BECTA6. Matsumoto, H. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. July 1988. v. 41 (1). p. 44-49. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

1935

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Shideler, R.K. Voss, J.L.; Squires, E.L. Urbana? : University of Illinois at Urbana-Champaign?, 1984? . 10th International Congress on Animal Reproduction and Artificial Insemination, University of Illinois at Urbana-Champaign, Illinois, USDA, June 10-14, 1984. v. 3 p. 470.1-470.3. Includes references. (NAL Call No.: DNAL SF105.5.I5 1984).

1936

Use of a semen extender containing antibiotic to improve the fertility of a stallion with seminal vesiculitis due to Pseudomonas aeruginosa.

THGNB. Blanchard, T.L. Varner, D.D.; Love, C.C.; Hurtgen, J.P.; Cummings, M.R.; Kenney, R.M. Los Altos, Calif. : Geron-X. Theriogenology. Oct 1987. v. 28 (4). p. 541-546. Includes references. (NAL Call No.: DNAL QP251.A1T5).

1937

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Turner, A.S. Harvard, Mass., Laux Company. American farriers' journal. Sept 1981. v. 7 (4). p. 188-190. ill. (NAL Call No.: SF907.A5).

ANIMAL DISORDERS - PHYSICAL TRAUMA

1938

Abnormal concentrations of B vitamins and amino acids in plasma, bile, and liver of chicks with aflatoxicosis (*Aspergillus parasiticus*, feed contamination).

Voigt, M.N. Wyatt, R.D.; Ayres, J.C.; Koehler, P.E. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Nov 1980. v. 40 (5). p. 870-875. 31 ref. (NAL Call No.: 448.3 AP5).

1939

Absorption of pentachlorophenol by the ovine lymphatic system: a technical note (Insecticide).

Wilson, R.D. Ziprin, R.L.; Clark, D.E.; Elissalde, M.H. Manhattan, Kan., American College of Veterinary Toxicologists. Veterinary and human toxicology. Feb 1982. v. 24 (1). p. 12-15. ill. Includes 13 ref. (NAL Call No.: SF601.A47).

1940

Accumulation of Phosvel in adipose tissue of hens (Pesticides).

Konno, N. Kinebuchi, H. Basel. Experientia. Jan 15, 1979. v. 35 (1). p. 82-83. ill. 5 ref. (NAL Call No.: 475 EX7).

1941

Acute lead poisoning with eosinophilic meningoencephalitis in calves on a farm receiving land application of sewage sludge.

JEPTD. Dorn, C.R. Tuomari, D.; Reddy, C.; Logan, T.J. Park Forest : Chem-Orbital. Journal of environmental pathology, toxicology, and oncology : official organ of the International Society for Environmental Toxicology and Cancer. Mar/Apr 1986. v. 6 (3/4). p. 305-313. ill. Includes references. (NAL Call No.: DNAL RB152.J6).

1942

Acute malathion toxicosis and related enzymatic alterations in *Bubalus bubalis*: antidotal treatment with atropine, 2-PAM, and diazepam.

JTEHD6. Gupta, R.C. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. 1984. v. 14 (2/3). p. 291-303. Includes references. (NAL Call No.: DNAL RA565.A1J6).

1943

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Krishnakumari, M.K. Muralidhara, S. Champaign, Ill., Poultry Science Association. Poultry science. Dec 1981. v. 60 (12). p. 2599-2602. Includes 21 ref. (NAL Call No.: 47.8 AM33P).

1944

Adult and embryo (chicken, partridge and quail) responses to organophosphate pesticide: Azodrin.

Schom, C.B. Abbott, U.K. Champaign, Ill., Poultry Science Association. Poultry science. Jan 1979. v. 58 (1). p. 60-66. ill. 13 ref. (NAL Call No.: 47.8 AM33P).

1945

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Furtado, R.M. East Lansing, The Station. Research report. Michigan. Agricultural Experiment Station. Sept 1979. Sept 1979. (386). p. 119-121. ill. (NAL Call No.: 284.9 M58).

1946

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Furtado, R.M. Pearson, A.M. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1979. v. 27 (6). p. 1351-1354. ill. 22 ref. (NAL Call No.: 381 J8223).

1947

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Giambrone, J.J. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Winter 1983. v. 30 (4). p. 20. ill. (NAL Call No.: 100 AL1H).

1948

An animal model for testing organophosphates in the field. S,S,S-tributyl phosphorotrithioate and the scaleless chicken (Agricultural chemicals, toxic effects, insecticides).

Wilson, B.W. Cisson, C.M.; Randall, W.R.; Woodrow, J.E.; Seiber, J.N.; Knaak, J.B. Washington, D.C., The Society. ACS symposium series - American Chemical Society. 1982. 1982. (182). p. 199-200. ill. Includes 12 ref. (NAL Call No.: QD1.A45).

(ANIMAL DISORDERS - PHYSICAL TRAUMA)

1949

Assessment of organophorus-induced delayed neuropathy in chickens using needle electromyography.
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2016

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2020

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2021

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2023

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2024

An evaluation of the Dorset sheep as a predictive animal model for the response of G-6-PD deficient human erythrocytes to a proposed systemic toxic ozone intermediate, methyl linoleate hydroperoxide.

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2026

Extraction procedure for isolation of photosensitizing agent from fungus (*Pithomyces charatarum*) growing on kleingrass (*Sporidesmin*, mycotoxinosis of facial eczema observed in sheep and cattle).

Halder, C.A. TX. Hejtmancik, E.; Camp, B.J.; Bridges, C.H. College Station, Tex., The Station. PR - Texas Agricultural Experiment Station. Aug 1980. Aug 1980. (3693/3718). p. 23-24. 5 ref. (NAL Call No.: 100 T31P).

2027

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2107

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(ANIMAL DISORDERS - PHYSICAL TRAUMA)

2129

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PROTECTION OF ANIMAL PRODUCTS - GENERAL AND MISC.

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(PROTECTION OF ANIMAL PRODUCTS - GENERAL AND MISC.)

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New York, The Union. Abstract: A Consumer Reports study evaluated 2 supermarket brands, five regional brands, one national brand, fresh-killed and barnyard chickens. Store-bought chicken was found to be about as good as farm chicken or fresh-killed. Name brands offered no great difference in quality therefore chicken can be safely selected on the basis of its price per pound. Topics discussed include modern mass-production techniques, taste parameters, nutrition, costs, cleanliness, and storage. An insert describes additives in chicken feed and antibiotics in chickens. Consumer reports Consumers Union of United States. May 1978. v. 43 (5). p. 255-258.

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Christians, C.J. St. Paul. Extension folder Minnesota. University. Agricultural Extension Service. 1978. 1978. (436). 5 p. ill. (NAL Call No.: 275.29 M66EX).

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Huffman, D.L. Cordray, J.C. Auburn, The Station. Highlights of agricultural research. Alabama. Agricultural Experiment Station. Summer 1979. v. 26 (2). p. 9. ill. (NAL Call No.: 100 AL1H).

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Tapeworms, meat and man: A brief review and update of cysticercosis caused by taenia saginata and taenia solium.

Hird, D.W. Pullen, M.M. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Abstract: Important concepts in detection, control and prevention of cysticercosis caused by tapeworm species are reviewed. T. saginata cysticercosis in beef (beef measles) continues to be a concern in developed countries such as the United States, as well as in developing areas such as East Africa where the infection is widespread. The high standards of meat inspection in the United States have not succeeded in eliminating beef cysticercosis which is seen primarily in feedlot cattle originating in the southwestern U.S. T. solium cysticercosis in swine (pork measles) is rarely reported in areas such as the U.S., Canada, and most European countries, but is still a definite human health concern in Mexico, some other Latin American nations and parts of Africa and Asia. Public health threats are discussed. Journal of food protection. Jan 1979. v. 42 (1). p. 58-64. 63 ref.

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Mayes, H.F. Jesse, G.W. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-6019). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

2163 2164

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AQUACULTURE RELATED

2169

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NONFOOD AND NONFEED

2175

Scouring protein contaminants from raw wool.
TRJDA9. Christoe, J.R. Princeton, N.J. :
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AGRICULTURAL ENGINEERING

2176

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STRUCTURES AND STRUCTURAL EQUIPMENT

2177

Comparison of various nursery pen types and responsiveness to antibiotic additions for weanling swine (Bedded solid floor, partially slotted floor, flat-deck pens).

Mahan, D.C. Corley, J.R. Wooster, The Center. Ohio swine research and industry report. Animal science series - Ohio Agricultural Research and Development Center. 1982. 1982. (82-1). p. 5-10. ill. (NAL Call No.: SF391.052).

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2186

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Jarrett, J.A. Philadelphia, Pa. : W.B. Saunders. The veterinary clinics of North America. July 1984. Paper presented at the "Symposium on Bovine Mastitis," July 1984. v. 6 (2). p. 371-375. ill. Includes references. (NAL Call No.: SF601.V534).

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Farrowing conversion to raised crates with sealed pits (Swine waste management).

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(STRUCTURES AND STRUCTURAL EQUIPMENT)

2188

Fumigants and sanitation: update on formaldehyde (Chicken houses).

Wills, F.K. POUDA. Mount Morris : Watt Publishing Company. Poultry digest. Sept 1983. v. 42 (499). p. 452, 454. ill. (NAL Call No.: 47.8 N219).

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Odor control for farrow-to-finish swine farm--a case study (Flushing systems).

Korsmeyer, W. Hall, M.D.; Chen, T.H. Wooster, Ohio, The Center. Ohio swine research and industry report. Animal science series - Ohio Agricultural Research and Development Center. 1980. 1980. (80-2). p. 50-55. ill. Includes 2 ref. (NAL Call No.: SF391.052).

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Protective shelters for beef calves on range.

Olson, D.P. Riesenberger, L.E. Corvallis, Or. : The Service. PNW - Pacific Northwest Extension Publication - Oregon State University, Extension Service. Jan 1985 (264). 4 p. ill. (NAL Call No.: DNAL 275.29 W27PN).

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Reducing broiler house temperatures using a reflective roof coating.

Van Wicklen, G.L. Steinberg, S.C.; Egan, M.A. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-4546). 15 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

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Residues of polychlorinated phenols and anisoles in broilers raised on contaminated woodshaving litter (Tainting of meat).

Frank, R. POSCA. Fish, N.; Sironi, G.J.; Walker, J.; Orr, H.L. Champaign : Poultry Science Association. Poultry science. Aug 1983. v. 62 (8). p. 1559-1565. Includes references. (NAL Call No.: 47.8 AM33P).

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Respirable aerosol concentrations in enclosed swine housing.

Van Wicklen, G.L. Yoder, M.F.; Czarick, M. III. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-4528). 12 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

2194

Some physical factors affecting dust concentrations in a pig facility (Livestock housing, air pollution).

Honey, L.F. McQuitty, J.B. Ottawa, Canadian Society of Agricultural Engineering. Canadian agricultural engineering. June 1979. v. 21 (1). p. 9-14. ill. 12 ref. (NAL Call No.: 58.8 C164).

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Stocking density for growing-finishing swine.

Kornegay, E.T. Kansas City, Mo. : The Association. Proceedings of annual meeting - American Association of Swine Practitioners. Meeting held on March 16-18, 1986, Minneapolis, Minnesota.~ Literature review. 1986. p. 421-445. Includes references. (NAL Call No.: DNAL SF971.A44).

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Turkey grower barn environmental monitoring results.

Janni, K.A. Redig, P.T.; Mulhausen, J.R.; Newman, J.A. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-4527). 14 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

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Wind, shelter-type and lambing location.

Dixon, J.E. Parker, C.F.; LeaMaster, B.; Olson, D.P. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The

(STRUCTURES AND STRUCTURAL EQUIPMENT)

American Society of Agricultural Engineers,
Order Dept., 2950 Niles Road, St. Joseph,
Michigan 49085. Telephone the Order Dept. at
(616) 429-0300 for information and prices.
1985. (fiche no. 85-4521). 10 p. Includes
references. (NAL Call No.: DNAL FICHE S-72).

2198

Windbreak protection for wintering calves.
Morrison, S.R. CA. Pierce, C.; Dunbar, J.
Berkeley, Calif., The Station. California
agriculture - California Agricultural
Experiment Station. July/Aug 1979. v. 33 (7/8).
p. 12-13. (NAL Call No.: 100 C12CAG).

FARM EQUIPMENT

2199

Feeder system maintenance, clean-out termed essential (Poultry equipment, sanitation).

Reynnells, R.D. Mount Morris, Ill., Watt Publishing Co. Poultry digest. Mar 1982. v. 41 (481). p. 144, 146. (NAL Call No.: 47.8 N219).

2200

Horse drawn spraying brought up-to-date.

Morton, G. Eugene : The Journal. Small farmer's journal : featuring practical horse-farming. Summer 1983. v. 7 (3). p. 46-47. ill. (NAL Call No.: S1.S42).

NATURAL RESOURCES

2201

Activated sludge process for pretreating poultry processing wastewater.

Whitehead, W.K. St. Joseph, Mich. Transactions of the ASAE American Society of Agricultural Engineers. Jan/Feb 1979. v. 22 (1). p. 211-214. ill. 11 ref. (NAL Call No.: 290.9 AM32T).

2202

Aerial census of wild horses in western Utah.

Frei, M.N. Peterson, J.S. Denver, Society of Range Management. Journal of range management. Jan 1979. v. 32 (1). p. 8-11. ill., map. 11 ref. (NAL Call No.: 60.18 J82).

2203

Changes in mallard hen and brood behaviors in response to methyl parathion-induced illness of ducklings.

ETOC DK. Fairbrother, A. Meyers, S.M.; Bennett, R.S. Elmsford, N.Y. : Pergamon Press. Environmental toxicology and chemistry. 1988. v. 7 (6). p. 499-503. Includes references. (NAL Call No.: DNAL QH545.A1E58).

2204

Comparative acute oral toxicity of para-aminopropiophenone (PAPP) in mammals and birds (Coyote predation on cattle, sheep, goats, and poultry).

Savarie, P.J. BECTA. Pan, H.P.; Hayes, D.J.; Roberts, J.D.; Dasch, G.J.; Felton, R.; Schafer, E.W. New York : Springer-Verlag. Bulletin of environmental contamination and toxicology. Jan 1983. v. 30 (1). p. 122-126. 1 p. ref. (NAL Call No.: RA1270.P35A1).

2205

The distribution of cadmium chloride in pigs dosed intramuscularly for twelve weeks (Air pollution).

Uthe, J.F. Proctor, B.G. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1979. v. 14 (2). p. 111-115. ill. 10 ref. (NAL Call No.: TD172.J6).

2206

Duck farmers control pollution (Water pollution, New York).

Esser, A.J. Washington. Soil conservation. Apr 1979. v. 44 (9). p. 6-7. ill. (NAL Call No.: 1.6 S03S).

2207

Ecology of Aeromonas hydrophila (a pathogen of amphibians, reptiles, fish, snails, and cows) in a South Carolina cooling reservoir (receiving).

Hazen, T.C. New York, Springer. Microbial ecology. 1979. v. 5 (3). p. 179-195. ill., map. 43 ref. (NAL Call No.: QR100.M5).

2208

Effect of air contaminants on performance and quality of broilers.

Quarles, C.L. Caveny, D.D. Champaign, Ill., Poultry Science Association. Poultry science. May 1979. v. 58 (3). p. 543-548. ill. 28 ref. (NAL Call No.: 47.8 AM33P).

2209

Effect of copper in swine diets on fresh waste composition and anaerobic decomposition.

Brumm, M.C. Sutton, A.L. Champaign, Ill., American Society of Animal Science. Journal of animal science. July 1979. v. 49 (1). p. 20-25. ill. 17 ref. (NAL Call No.: 49 J82).

2210

Effects of a chemical dispersant and crude oil on breeding ducks (Anas platyrhynchos).

Albers, P.H. BECTA. Gay, M.L. New York : Springer-Verlag. Bulletin of environmental contamination and toxicology. Oct 1982. v. 29 (4). p. 404-411. 2 p. ref. (NAL Call No.: RA1270.P35A1).

2211

The effects of a thermal effluent stress on the sea-grasses and macro-algae in the vicinity of Turkey Point, Biscayne Bay, Florida.

Zieman, Joseph Crowe, 1943-. Ann Arbor, Mich. University Microfilms 1971. Thesis--University of Miami, 1970. x, 129 leaves. Bibliography: leaves 126-129. (NAL Call No.: DISS 71-10,667).

2212

Effects of dietary ABATE on reproductive success, duckling survival, behavior, and clinical pathology in game-farm mallards.

Franson, J.C. AECTCV. Spann, J.W.; Heinz, G.H.; Bunck, C.; Lamont, T. New York : Springer-Verlag. Archives of environmental contamination and toxicology. Sept 1983. v. 12 (5). p. 529-534. Includes references. (NAL Call No.: TD172.A7).

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2213

The effects of ingested petroleum on oviposition and some aspects of reproduction in experimental colonies of mallard ducks (*Anas platyrhynchos*) (Environmental pollutants).
Holmes, W.N. Cavanaugh, K.P. Oxford. Journal of reproduction and fertility. Nov 1978. v. 54 (2). p. 335-347. ill., plate. Bibliography p. 346-347. (NAL Call No.: 442.8 J8222).

2214

Effects of ingested petroleum on the plasma prolactin levels during incubation and on the breeding success of paired mallard ducks.
Cavanaugh, K.P. AECTCV. Goldsmith, A.R.; Holmes, W.N.; Follett, B.K. New York : Springer-Verlag. Archives of environmental contamination and toxicology. May 1983. v. 12 (3). p. 335-341. ill. Includes references. (NAL Call No.: TD172.A7).

2215

Effects of methyl parathion in ducks and duck broods.
ETOCDK. Brewer, L.W. Driver, C.J.; Kendall, R.J.; Zenier, C.; Lacher, T.E. Jr. Elmsford, N.Y. : Pergamon Press. Environmental toxicology and chemistry. 1988. v. 7 (5). p. 373-379. Includes references. (NAL Call No.: DNAL QH545.A1E58).

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Effects of polychlorinated biphenyls on poultry reproduction (Environmental pollutants).
Kosutzky, J. Adamec, O. New York. Bulletin of environmental contamination and toxicology. Apr 1979. v. 21 (6). p. 737-742. ill. 19 ref. (NAL Call No.: RA1270.P35A1).

2217

Effects of sodium cyanide and diphacinone in coyotes (*Canis latrans*): applications as predacides in livestock toxic collars (for dosing sheep-attacking coyotes, environmental contamination).
Sternner, R.T. New York, Springer. Bulletin of environmental contamination and toxicology. Sept 1979. v. 23 (1/2). p. 211-217. ill. 12 ref. (NAL Call No.: RA1270.P35A1).

2218

Effects of 2,3,7,8-tetrachlorodibenzofuran (TCDF) (polychlorinated dibenzofurans) on the immune system in guinea pigs.
Luster, M.I. Faith, R.E. New York, Marcel Dekker. Drug and chemical toxicology. 1979. v. 2 (1/2). p. 49-60. ill. 24 ref. (NAL Call No.: QP901.D7).

2219

Embryotoxic effects of crude oil containing nickel and vanadium in mallards (Duck eggs).
Hoffman, D.J. New York, Springer. Bulletin of environmental contamination and toxicology. Sept 1979. v. 23 (1/2). p. 203-206. ill. 12 ref. (NAL Call No.: RA1270.P35A1).

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Experimental lead encephalopathy in the chicken.
Dahlgren, Robert R., 1935-. Ann Arbor, Mich. University Microfilms International 1978. Thesis--Saint Louis University. iv, (66) leaves. Bibliography: leaves 32-34. (NAL Call No.: DISS 75-26,244).

2221

Helminth transmission in anaerobically digested sludge (Tested on *Ascaris* free pigs).
Fitzgerald, P.R. Mansfield, M.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC. Dixon Springs Agricultural Center. Jan 1979. Jan 1979. (7). p. 280. ill. 1 ref. (NAL Call No.: S1.D5).

2222

Hematologic and myelogenous effects of inhaled benzene (constituent of motor fuels) in the pig and the rat.
Johnston, R.V. Pinkerton, M.N. Washington, D.C., Hemisphere Publishing Corporation. Journal of toxicology and environmental health. Nov 1979. v. 5 (6). p. 1025-1035. ill. 24 ref. (NAL Call No.: RA565.A1J6).

2223

H₂S (hydrogen sulfide) removal by purple sulfur bacteria in swine waste lagoons.
Van Lotringen, T.J.M. Gerrish, J.B. Ann Arbor, Mich., Ann Arbor Science Publishers. Proceedings of the Industrial Waste Conference. Industrial Waste Conference, Purdue University. 1978 (pub. 1979). 1978 (pub. 1979). (33d). p. 440-448. ill. 24 ref. (NAL Call No.: TP995.A1I5).

2224

Identification of dust-borne odors in swine confinement facilities.
Hammond, E.G. Fedler, C. St. Joseph, Mich., The Society. Transactions of the ASAE. American Society of Agricultural Engineers. Sept/Oct 1979. v. 22 (5). p. 1186-1189, 1192. ill. 24 ref. (NAL Call No.: 290.9 AM32T).

2225

Lead levels in wool as an indication of lead in blood of sheep exposed to automotive emissions.
Ward, N.I. Brooks, R.R. New York. Bulletin of environmental contamination and toxicology. Feb 1979. v. 21 (3). p. 403-408. ill. 8 ref. (NAL Call No.: RA1270.P35A1).

2226

Limiting the environment impact of animal production odors (Feedlots, poultry and dairy industry, state air pollution and nuisance laws).

Kreis, R.D. Oxford, New York, Pergamon Press. Environment international. 1978. v. 1 (5). p. 247-275. ill., maps. Bibliography p. 272-275. (NAL Call No.: TD169.E54).

2227

Odor control products prove ineffective (Swine farms).

Muehling, A. Minneapolis. Hog farm management. Apr 1979. v. 16 (4). p. 76, 78. ill. (NAL Call No.: SF391.H6).

2228

Reproduction and health of mallards fed endrin.

ETOCDK. Spann, J.W. Heinz, G.H.; Hulse, C.S. Elmsford : Pergamon Press. Environmental toxicology and chemistry. 1986. v. 5 (8). p. 755-759. Includes 10 references. (NAL Call No.: DNAL QH545.A1E58).

2229

Second chance for the wood buffalo.

Judd, C.D. Boston, Mass. : Massachusetts Society for the Prevention of Cruelty to Animals. Animals. Jan/Feb 1987. v. 120 (1). p. 20-26. ill. (NAL Call No.: DNAL 48.8 OU7).

2230

Tissue retention of Se (selenium) in growing pigs fed fly ash or white sweet clover grown on fly ash (Waste products as feed supplements).

Mandisodza, K.T. Pond, W.G. Champaign, Ill., American Society of Animal Science. Journal of animal science. Aug 1979. v. 49 (2). p. 535-542. ill. 29 ref. (NAL Call No.: 49 J82).

2231

Toxic and essential elements in bone (of cattle, sheep, swine and chickens)--a review (Environmental pollutants, metal residues, includes contamination of mechanically deboned meat).

Doyle, J.J. Champaign, Ill., American Society of Animal Science. Journal of animal science. Aug 1979. v. 49 (2). p. 482-497. ill. Bibliography p. 494-497. (NAL Call No.: 49 J82).

2232

Drying chicken manure by fermentation and reduction of odor pollution.

Fujio, Y. Ohtomi, Y. Hayashi, S. Osaka, Nihon Hakko Kogaku Kai. Hakko kogaku kaishi Nihon Hakko Kogaku Kai. 1978. v. 56 (4). p. 304-309. ill. 17 ref. (NAL Call No.: QP601.A1N3).

BIOMASS ENERGY SOURCES

2233

**Integrating anaerobic digestion and
algal-biomass treatment processes for swine
wastewater.**

PIWCA. Yang, P.Y. Nagano, S.Y. Stoneham, Mass.
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... Industrial Waste Conference, Purdue
University. 1983 c1984. (38th). p. 141-161.
ill. Includes 31 references. (NAL Call No.:
DNAL TP995.A1I5).

WATER RESOURCES AND MANAGEMENT

2234

Organic chemicals and other factors in water reuse at a poultry processing plant.

Wachter, J.K. Andelman, J.B.; Beck, J.M.;
Nolle, S. Denver, Colo. : AWWA Research
Foundation ; Springfield, Va. : reproduced by
NTIS, 1981. Proceedings of the Water Reuse
Symposium II : held August 23-28, 1981,
Washington, D.C. v.2, p. 862-880. ill. Includes
references. (NAL Call No.: TD429.W3 1981).

FOOD SCIENCE AND FOOD PRODUCTS

2235

Elementary food science / John T. R. Nickerson (and) Louis J. Ronsivalli. -.

Nickerson, John T. Ronsivalli, Louis J.
Westport, Conn. AVI Pub. Co. 1980. Abstract:
The study of food science at the college level is supported by a revised textbook covering 4 general areas. The basics of food science include nutrition, sanitation, regulations, additives, and food-borne diseases. The causes of food changes are microbial activity, and enzyme and chemical reactions. Food processing methods described cover heating, drying, refrigeration, freezing and adding chemicals. The handling and processing of foods is detailed by food groups: meat, dairy products, poultry and eggs, fish, grains, bakery products, vegetables, fruits, sugar, fats and oils. Information for each category includes description of various forms of the food, production techniques, harvesting, processing, storage, and uses. Includes index. 441 p. : ill. Bibliography: p. 417-420. (NAL Call No.: TX537.N5 1980 F&N B-2737).

2236

Food irradiation: The evaluation of commercialization opportunities.

Masefield, John. Dietz, George R. Boca Raton, Fla. : CRC Press. Abstract: The evolution and growth of the more notable successful radiation applications are traced and analyzed, and the similarity of their commercial applications in food irradiation operations in North America is assessed. Common elements for commercial success are identified and used to examine several potential food irradiation applications. Several case histories are presented and discussed (low-dose irradiation of ocean products and poultry; attempted commercial potato irradiation in Canada). Acceptability of food irradiation applications by FDA is briefly discussed. (wz). CRC critical reviews in food science and nutrition. 1983. v. 19 (3). p. 259-272. Includes 7 references. (NAL Call No.: TP368.C7).

2237

USDA increases testing for bacterium.

Denver, Colo. : American School Food Service Association. Abstract: The U.S. Department of Agriculture recently expanded its meat and poultry inspection program to include testing for *Listeria monocytogenes*. The testing program will focus on both domestic and imported ready-to-eat products such as dry cured pork, fermented sausages, and cooked luncheon meats. Products shown to contain the microorganism will be removed from the market place. Although no meat or poultry products have been involved in any reported disease outbreaks due to *Listeria monocytogenes* thus far, the organism is a potential hazard to consumers and could cause serious illness or death if consumed by certain high-risk individuals. School foodservice journal. June/July 1987. v. 41 (6). p. 32. ill. (NAL Call No.: DNAL 389.8 SCH6).

FOOD SCIENCE, DAIRY

2238

Milk the fight for purity /James Cross Giblin.

Giblin, James. New York : Crowell, c1986.

Abstract: Milk is the most widely consumed food in the United States today. The author reviews the history of the fight for pure milk. Tracing this history reveals continuing crusades for consumer protection concerning milk. The history of drinking cow's milk; providing milk to the cities' populations; swill-milk dairies (in which dairy cows drink swill- "run-off" from local distilleries- instead of water); adulteration of milk with water, baking soda, and chalk; discovery of milk bottles for delivery; milk associated with diseases (tuberculosis, typhoid fever, cholera, scarlet fever and brucellosis); pasteurization; milk grading; the invention of the Rotolactor to milk cows; the threat of radioactivity in milk; contaminated feed (with polybrominated biphenyl); and testing for antibiotics in milk are discussed in detail. Various sketches and pictures complement the text. Includes index. 106 p. : ill. ; 24 cm. Bibliography: p. 100-102. (NAL Call No.: DNAL jSF257.G5 1986).

FOOD SCIENCE, LIVESTOCK

2239

Improving sanitation and federal inspection at slaughter plants : how to get better results for the inspection dollar : report to the Congress / by the Comptroller General of the United States. -.

United States ~ General Accounting Office.
(Washington, D.C.) U.S. General Accounting Office ; for sale by Supt. of Docs. 1981. Cover title ~CED-81-118 ~B-203654. v. 60 p. : ill. ; 28 cm. Includes bibliographical references.
(NAL Call No. : HD9410.9.U5U5).

2240

MPI guideline.

United States ~ Food Safety and Quality Service
~ Meat and Poultry Inspection Program.
(Washington, D.C.) Meat and Poultry Inspection, Food Safety and Quality Service, USDA,.
Description based on: No. ((1980)). v. : ill. ; 28 cm. (NAL Call No.: aTS1975.A1U531).

FOOD SCIENCE, POULTRY

2241

Improving sanitation and federal inspection at slaughter plants : how to get better results for the inspection dollar : report to the Congress / by the Comptroller General of the United States. -.

United States ~ General Accounting Office.
(Washington, D.C.) U.S. General Accounting Office ; for sale by Supt. of Docs. 1981. Cover title ~CED-81-118 ~B-203654. v, 60 p. : ill. ; 28 cm. Includes bibliographical references. (NAL Call No.: HD9410.9.U5U5).

2242

MPI guideline.

United States ~ Food Safety and Quality Service ~ Meat and Poultry Inspection Program.
(Washington, D.C.) Meat and Poultry Inspection, Food Safety and Quality Service, USDA,.
Description based on: No. ((1980)). v. : ill. ; 28 cm. (NAL Call No.: aTS1975.A1U531).

2243

Review of the Egg Products Inspection Acthearing before the Subcommittee on Livestock, Dairy, and Poultry of the Committee on Agriculture, House of Representatives, Ninety-ninth Congress, first session, November 21, 1985. --.

United States.~Congress.~House.~Committee on Agriculture.~Subcommittee on Livestock, Dairy, and Poultry. Washington, D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1986. Distributed to some depository libraries in microfiche.~
Shipping list no.: 85-647-P.~ "Serial no. 99-17." iv, 342 p. : ill., forms ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF27.A366 1985b).

2244

Use of certain feed additives (drugs) in broiler and egg production / by Jorge M. Inserni. -.

Inserni, Jorge M. 1961. Thesis (M.S.)--Kansas State University, 1961. Extension Repository Collection ~Typescript. 51, 3 leaves ; 29 cm. Bibliography: leaves 38-51. (NAL Call No.: SF98.A2I5).

FOOD SCIENCE, FIELD CROP

2245

Four top researchers in the limelight.

AGREA. Wigger, R. Washington, D.C. : The
Administration. Agricultural research - U.S.
Department of Agriculture, Agricultural
Research Service. Nov/Dec 1987. v. 35 (10). p.
6-7. ill. (NAL Call No.: DNAL 1.98 AG84).

FOOD PROCESSING

2246

Food irradiation.

Robbins, C.J. Holmes, A.W. Boston, Mass. : Little, Brown and Company. Abstract: Two letters to the editor concerning a recent editorial take opposing sides concerning the conclusions of the British Medical Association's Board of Science that the ban on food irradiation in the United Kingdom should be lifted. One letter argues that the ban should not be lifted since irradiation of doses of 10 kGy will not sterilize food, and that data on the safety of irradiated foods are insufficient. The other letter argues that the ban should be lifted because it is unlikely that there will be any hazard in irradiated food that was not present prior to irradiation, and the reduction of salmonella by irradiation of chicken is a distinct health protection benefit.(wz). The Lancet. Apr 4, 1987. v. 1 (8536). p. 810. Includes 1 references. (NAL Call No.: DNAL 448.8 L22).

2247

Food irradiation and nutrition.

Brynjolfsson, Ari. San Francisco. Abstract: To kill surface and subsurface bacteria, fully packaged foods are sterilized by X-ray treatment. Irradiation reduces or eliminates salmonella in poultry, mold growth on strawberries, and sprout development in potatoes. Irradiation does not prevent enzymatic breakdowns, oxidative reactions or recontamination, but it does have a far lesser detrimental effect on the nutritional value of foods than heat processing. The changes caused by irradiation include the disruption of hydrogen bonds and the unfolding of molecules; irradiation of polysaccharides results in depolymerization and breakdown into simpler molecules. Resulting compounds may be toxic to single-cell organisms, but not to mammals. As a method of food preservation, irradiation has low energy requirements and should be of special interest to developing nations. The Professional nutritionist. Oct/Dec 1979. v. 11 (4). p. 7-10. ill. (NAL Call No.: SF95.A1P7).

2248

Food irradiation: The evaluation of commercialization opportunities.

Masefield, John. Dietz, George R. Boca Raton, Fla. : CRC Press. Abstract: The evolution and growth of the more notable successful radiation applications are traced and analyzed, and the similarity of their commercial applications in food irradiation operations in North America is assessed. Common elements for commercial success are identified and used to examine several potential food irradiation applications. Several case histories are presented and discussed (low-dose irradiation of ocean products and poultry; attempted commercial potato irradiation in Canada). Acceptability of food irradiation applications by FDA is briefly discussed. (wz). CRC critical reviews in food science and nutrition. 1983. v.

19 (3). p. 259-272. Includes 7 references. (NAL Call No.: TP368.C7).

2249

Irradiation for control of Salmonella and other pathogens in poultry and fresh meats.

FOTEA. Kampelmacher, E.H. Chicago, Ill. : Institute of Food Technologists. Food technology. Based on a paper presented during the symposium, "Food Irradiation--A Challenge for the 1980s," at the 42nd Annual Meeting of the Institute of Food Technologists, June 22/25, 1982, Las Vegas.~ Literature review. Apr 1983. v. 37 (4). p. 117-119, 169. Includes references. (NAL Call No.: DNAL 389.8 F7398).

2250

Irradiation's promise: fewer foodborne illnesses?.

Roberts, T. Washington, D.C. : The Service. Abstract: Food irradiation offers a variety of potential benefits to the food supply. It can delay ripening and sprouting of fruits and vegetables, and substitute for chemical fumigants to kill insects. However, one of the most important benefits of food irradiation is its potential use for destroying microbial pathogens that enter the food supply, including the two most common disease causing bacteria: salmonella and campylobacter. Animal products are one of the primary carriers of pathogens. Food borne illnesses are on the rise, and irradiation of red meats and poultry could significantly reduce their occurrence. Food irradiation should be examined more closely to determine its possible benefits in curtailing microbial diseases.(lsp). National food review NFR - United States Dept. of Agriculture, Economic Research Service. Spring 1986. (33). p. 7-10. ill., charts. (NAL Call No.: DNAL FNC aHD9001.N275).

2251

Microbiology of restructured meat and poultry products.

Kotula, A.W. Berry, B.W.; Emswiler-Rose, B.S. New York : AVI Publishing Company. Advances in meat research. Literature review. 1987. v. 3. p. 161-220. Includes references. (NAL Call No.: DNAL TS1960.A33).

2252

Nitrate, nitrite, and nitroso compounds in foods.

FOTEA. Chicago, Ill. : Institute of Food Technologists. Abstract: A detailed scientific review summarizes and discusses current knowledge on the formation and occurrence of nitroso compounds in foods. Topics include: the history of meat curing with nitrate and its bacterial conversion to nitrite; regulation of the use of nitrate and nitrite as meat,

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poultry, and fish curing agents; the chemistry of curing; microbiological aspects of nitrite; nitrite substitutes; the chemical conversion of nitrite to nitrosamines and nitrosamides; the biological (carcinogenic) activity of nitroso compounds; major analytical surveys on the presence of nitroso compounds in foods; sources of nitrosamines in foods; nitrosamine formation during food processing; indirect addition of nitrosamines into foods from contact surfaces or from food additives; the formation of nitroso compounds in the human body from ingested foods containing nitrate and nitrite; and nonvolatile nitroso compounds in foods. The health implications of nitrite and nitroso compounds in foods also are discussed.(wz). Food technology. Apr 1987. v. 41 (4). p. 127-134, 136. ill., charts. Includes 71 references. (NAL Call No.: DNAL 389.8 F7398).

2253

Present and future food hygiene concerns.

Kampelmacher, E.H. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 100-102. (NAL Call No.: DNAL SF601.J62).

FOOD PROCESSING, DAIRY

2254

Update on postmilking teat antiseptics (Cows, mastitis, *Streptococcus agalactiae*, disinfectants).

Pankey, J.W. Cuming, A.L.; Daggett, R.D.; Eberhart, R.J.; Farnsworth, R.J. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. 1983. Literature review. 1983. (22nd). p. 52-103. Includes references. (NAL Call No.: SF967.M3N32).

FOOD PROCESSING, LIVESTOCK

2255

Effects of cooking and/or processing upon levels of aflatoxins in meat from pigs fed a contaminated diet.

Furtado, R.M. Pearson, A.M.; Gray, J.I.; Hogberg, M.G.; Miller, E.R. Chicago, Institute of Food Technologists. Journal of food science. Sept/Oct 1981. v. 46 (5). p. 1306-1308, 1319. Includes 26 ref. (NAL Call No.: 389.8 F7322).

2256

Methods of chilling and packaging beef, pork and lamb variety meats for transoceanic shipment: Microbiological characteristics.
JFPRDR. Vanderzant, C. Hanna, M.O.; Ehlers, J.G.; Savell, J.W.; Griffin, D.B.; Johnson, D.D.; Smith, G.C.; Stiffler, D.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: The effect of various initial chilling treatments on the numbers and types of microorganisms of beef, pork and lamb tongues and livers packaged either in polyethylene (PE) film or in vacuum packages in Texas and transported fresh-chilled via transoceanic shipment to Antwerp, Belgium, was evaluated. Initial chilling treatments included: cooler-tempered, cooler-chilled freezer-tempered, freezer-chilled, ice-chilled and no prechilling (NPC) before packaging and subsequent refrigerated storage at 2 C. After the initial chilling treatments, the microflora was varied with micrococcus spp. with or without coryneform bacteria being the predominant bacterial types of most samples. After refrigerated storage for 13 to 15 days, lactic acid bacteria became dominant in most vacuum-packaged samples and in pork and lamb samples stored in PE film. Brochotrix thermosphacta and Pseudomonas spp. constituted a greater part of the microflora of beef tongues and livers stored in PE film than that of comparable vacuum-packaged samples. Increases in aerobic plate counts (APC) of refrigerated vacuum-packaged samples nearly always were greatest for samples (NPC) that were not pre-chilled before packaging and usually were smallest for samples that were either freezer-chilled, freezer-tempered or ice-chilled. (author). Journal of food protection. Sept 1985. v. 48 (9). p. 765-769. charts. Includes 8 references. (NAL Call No.: DNAL 44.8 J824).

2257

Microbial decontamination of calf carcasses by lactic acid sprays.

JFPRDR. Woolthuis, C.H.J. Smulders, F.J.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Literature review. Oct 1985. v. 48 (10). p. 832-837. Includes 56 references. (NAL Call No.: DNAL 44.8 J824).

2258

Microbial ecology of meat and poultry.

Grau, F.H. Westport, Conn. : AVI Publishing Company. Advances in meat research. Literature review. 1986. v. 2. p. 1-47. Includes references. (NAL Call No.: DNAL TS1960.A33).

2259

Microbiological quality of restructured and conventional steaks manufactured from electrically stimulated hot- and cold-boned carcasses.

JFDAZ. Newsome, R.L. Seman, D.L.; Langlois, B.E.; Moody, W.G.; Fox, J.D.; Gay, N. Chicago, Ill. : Institute of Food Technologists. Abstract: A study compared the microbiological quality of restructured and conventional (intact muscle) steaks produced from electrically-stimulated hot- and cold-boned carcasses of 10 market steers. The results indicated that bacterial counts were higher in restructured than in conventional steaks, and higher (except for enterobacteria and staphylococci) in hot-boned than in cold-boned carcass steaks. Analysis of steaks stored for 1 week revealed higher bacterial counts for steaks in an oxygen-permeable overwrap than for those vacuum-packed. Analysis revealed, however, that aerobic, anaerobic, lactobacilli, and psychrotrophic bacterial counts increased throughout a 6-week storage period for vacuum-packed steaks. (wz). Journal of food science. July/Aug 1987. v. 52 (4). p. 861-864, 868. charts. Includes 54 references. (NAL Call No.: DNAL 389.8 F7322).

2260

Minimizing Salmonella contamination on broiler carcasses with poly (hexamethylenebiguanide hydrochloride) (Prechilling water).

Thomson, J.E. Cox, N.A.; Bailey, J.S.; Islam, M.N. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. June 1981. v. 44 (6). p. 440-441, 444. 12 ref. (NAL Call No.: 44.8 J824).

2261

Protection and productivity : the strategy for meat and poultry inspection in the 1980's. -
(Washington, D.C.?) U.S. Dept. of Agriculture, Food Safety and Inspection Service 1984. "March 1984.". 40 p. ; 28 cm. (NAL Call No.: aHD9410.9.U52U5).

2262

Re-evaluation of selectivity of malachite green test for presence of sulfite in mechanically deboned poultry.

JANCA2. Mallinson, E.T. III. Curry, K.A.; Corrao, P.A. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Nov/Dec 1985. v. 68 (6). p. 1231-1232. Includes 3 references. (NAL Call No.: DNAL 381 AS7).

2263

U.S. inspected meat and poultry packing plants : a guide to construction and layout. -.

(Washington, D.C.) U.S. Dept. of Agriculture, Food Safety and Quality Service 1984. Cover title. 83 p. : ill., plans ; 28 cm. --. (NAL Call No.: 1 Ag84Ah no.570 1984).

FOOD PROCESSING, POULTRY

2264

Aldehydes in poultry chiller water.

POSCAL. Tsai, L.S. Mapes, C.J.; Huxsoll, C.C. Champaign, Ill. : Poultry Science Association. Poultry science. June 1987. v. 66 (6). p. 983-989. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2265

Animal feeding study protocol for irradiation sterilized chicken. --.

Washinton, D.C. Office for Wholesomeness of Irradiated Foods, US Army Medical Research & Development Command, 1975? . "17 Jun 1975.". 1 v. (various foliations) ; 27 cm. Includes bibliographies. (NAL Call No.: DNAL TX556.P9A54).

2266

Bacteriological evaluation of alkali-extracted protein from poultry residues (Deboning waste).

Jackson, E.D. Consolacion, F.I.; Jelen, P. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1982. v. 45 (9). p. 797-800, 805. ill. 18 ref. (NAL Call No.: 44.8 J824).

2267

Behavior of enterococci in egg processing operations.

Imai, C. Champaign, Ill., Poultry Science Association. Poultry science. Aug 1980. v. 59 (8). p. 1767-1772. ill. 12 ref. (NAL Call No.: 47.8 AM33P).

2268

Chlorine spray washing to reduce bacterial contamination of poultry processing equipment.

POSCAL. Bailey, J.S. Thomson, J.E.; Cox, N.A.; Shakelford, A.D. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1120-1123. ill. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2269

Comparison of sampling methods and implications for bacterial decontamination of poultry carcasses by rinsing.

JFPRDR. Lillard, H.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1988. v. 51 (5). p. 405-408. Includes references. (NAL Call No.: DNAL 44.8 J824).

2270

Contamination of poultry during processing.

Bailey, J.S. Thomson, J.E.; Cox, N.A. Orlando : Academic Press, 1987. Abstract: The normal microbial flora of poultry entering the processing plant and those processing operations which most influence the final microbiological quality of fresh poultry are discussed. Processing operations may result in cross-contamination by bird-to-bird contact, handling of carcasses, contact with processing equipment, tools, or the water bath of the scald and chill tanks. It is believed that good sanitation practices of poultry processors will minimize cross-contamination, and the resulting carcass will have an adequate shelf life to satisfy both the processor and the consumer. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 193-211. charts. Includes 114 references. (NAL Call No.: DNAL QR117.M5).

2271

Cook/chill foodservice system with a microwave oven: coliforms and aerobic counts from turkey rolls and slices.

JFPRDR. Ollinger-Snyder, P.A. Matthews, M.E. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1988. v. 51 (2). p. 84-86. Includes references. (NAL Call No.: DNAL 44.8 J824).

2272

Distribution of "attached" Salmonella typhimurium cells between poultry skin and a surface film following water immersion.

JFPRDR. Lillard, H.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Poultry skin was immersed in a saline solution (0.85 per cent) containing 10(8) Salmonella typhimurium/ml. After 0.25 min, 95 per cent of the water uptake was in a surface film and 5 per cent in the skin. After immersion for 30 and 60 min, a significant increase in total water uptake occurred at each immersion time. A significant increase in the surface film occurred after 30 min of immersion, but not from 30 to 60 min. After 0.25 min of immersion, 94 per cent of bacterial cells was entrapped in the water film and 6 per cent was on the skin. As immersion time increased, the percentage of bacteria in the surface film decreased, whereas the percentage on the skin increased. After 60 min of immersion, about 39 per cent of bacterial cells was in the surface film and 61 per cent was on the skin. These data indicate a possible transfer of water and bacteria from surface film to skin during prolonged water immersion. Preventing the formation of the surface film by altering surface tension may reduce carcass contamination during immersion processes.(author). Journal of food protection. June 1986. v. 49 (6). p. 449-454. ill., charts. Includes 8 references. (NAL Call No.: DNAL 44.8 J824).

2273

Effect of acetic acid on the microbiological quality of scalded picked and unpicked broiler carcasses.

JFPRDR. Lillard, H.S. Blankenship, L.C.; Dickens, J.A.; Craven, S.E.; Shackelford, A.D. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1987. v. 50 (2). p. 112-114. Includes references. (NAL Call No.: DNAL 44.8 J824).

2274

Effect of further processing systems on selected microbiological attributes of turkey meat products.

Denton, J.H. Gardner, F.A. Chicago, Institute of Food Technologists. Journal of food science. Jan/Feb 1982. v. 47 (1). p. 214-217. ill. Includes 13 ref. (NAL Call No.: 389.8 F7322).

2275

The effect of lysozyme and ethylenediaminetetraacetic acid on Salmonella on broiler parts.

POSCAL. Samuelson, K.J. Rupnow, J.H.; Froning, G.W. Champaign, Ill. : Poultry Science Association. Poultry science. Aug 1985. v. 64 (8). p. 1488-1490. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2276

Effect of product form on the microbiological growth support characteristics of turkey meat products.

POSCAL. Denton, J.H. Gardner, F.A. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1988. v. 67 (9). p. 1269-1273. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2277

Effect of reduced processing on recovery of foodborne pathogens from hot-boned broiler meat and skin (Salmonella, Clostridium perfringens).

Lillard, H.S. Hamm, D.; Thomson, J.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Mar 1984. v. 47 (3). p. 209-212, 216. Includes references. (NAL Call No.: 44.8 J824).

2278

Effect of water uptake by poultry tissues on contamination by bacteria during immersion in bacterial suspensions (Contamination of carcasses during immersion washing and chilling procedures).

Thomas, C.J. McMeekin, T.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1984. v. 47 (5). p. 398-402. ill. Includes references. (NAL Call No.: 44.8 J824).

2279

Effects of the evisceration and cooling processes on the incidence of Salmonella in fresh dressed turkeys grown under Salmonella-controlled and uncontrolled environments (Carcass rinsing).

Campbell, D.F. Johnston, R.W.; Wheeler, M.W.; Nagaraja, K.V.; Szymanski, C.D. Champaign, Ill. : Poultry Science Association. Poultry science. May 1984. v. 63 (5). p. 1069-1072. Includes references. (NAL Call No.: 47.8 AM33P).

2280

Efficacy of hydrogen peroxide as a bactericide in poultry chiller water (as an alternative to chlorine).

Lillard, H.S. JFDSA. Thomson, J.E. Chicago : Institute of Food Technologists. Journal of food science. Jan/Feb 1983. v. 48 (1). p. 125-126. Includes references. (NAL Call No.: 389.8 F7322).

2281

Egg washing wastewater characterization and treatability.

Hauser, J.R. Hills, D.J. Champaign, Ill., Poultry Science Association. Poultry science. May 1981. v. 60 (5). p. 961-968. ill. 11 ref. (NAL Call No.: 47.8 AM33P).

2282

Evaluation of the 3M petrifilm culture plate method for enumerating aerobic flora and coliforms in poultry processing facilities.

JFPRDR. McAllister, J.S. Stadtherr, M.P.; Fox, T.L. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1988. v. 51 (8). p. 658-659, 662. Includes references. (NAL Call No.: DNAL 44.8 J824).

(FOOD PROCESSING, POULTRY)

2283

Factors affecting bacterial loads on shells of commercially washed eggs.

Moats, W.A. Champaign, Ill., Poultry Science Association. Poultry science. Sept 1981. v. 60 (9). p. 2084-2090. 7 ref. (NAL Call No.: 47.8 AM33P).

2284

The frequency of salmonellae on duck eggs.

POSCAL. Baker, R.C. Qureshi, R.A.; Sandhu, T.S.; Timoney, J.F. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1985. v. 64 (4). p. 646-652. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2285

Incidence and level of Campylobacter jejuni in broiler processing.

POSCAL. Izat, A.L. Gardner, F.A.; Denton, J.H.; Golan, F.A. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1988. v. 67 (11). p. 1568-1572. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2286

Incidence of Campylobacter jejuni in processed egg products.

POSCAL. Izat, A.L. Gardner, F.A. Champaign, Ill. : Poultry Science Association. Poultry science. Oct 1988. v. 67 (10). p. 1431-1435. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2287

Incidence of Salmonella in fresh dressed turkey's raised under Salmonella-controlled and uncontrolled environments (Commercial slaughter, evisceration, chilling, processing).

Campbell, D.F. Green, S.S.; Custer, C.S.; Johnston, R.W. Champaign, Poultry Science Association. Poultry science. Oct 1982. v. 61 (10). p. 1962-1967. 16 ref. (NAL Call No.: 47.8 AM33P).

2288

Influence of processing on Salmonella contamination of poultry carcasses; possibilities of improvement.

Lahellec, C. Colin, P. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 249-256. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

2289

Methods of preservation of poultry products.

Cunningham, F.E. Orlando : Academic Press, 1987. Abstract: Methods of preservation of poultry meat products are reviewed which are reported as reducing microbial load and prolonging shelf life. The following methods are used to prolong shelflife: antibiotics, sanitizers, food acids, controlled atmosphere, salts, disinfectants, coatings, heat treatment, polyphosphates, and ethanol. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 275-292. charts. Includes 83 references. (NAL Call No.: DNAL QR117.M5).

2290

Methods to reduce Salmonella contamination during processing of poultry.

Mulder, R.W.A.W. Bolder, N.M. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 242-248. ill. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

2291

The microbiological aspects of a duck processing plant.

Hall, M.A. Maurer, A.J. Champaign, Ill., Poultry Science Association. Poultry science. Aug 1980. v. 59 (8). p. 1795-1799. 20 ref. (NAL Call No.: 47.8 AM33P).

2292

Microbiology of ova harvested from commercially slaughtered mature chickens.

Blankenship, L.C. Hudspeth, J.P.; Craven, S.E. Champaign, Ill., Poultry Science Association. Poultry science. Feb 1982. v. 61 (2). p. 395-398. Includes 4 ref. (NAL Call No.: 47.8 AM33P).

2293

Microbiology of poultry parts dipped in potassium sorbate.

Cunningham, F.E. Champaign, Ill., Poultry Science Association. Poultry science. May 1981. v. 60 (5). p. 969-971. ill. 17 ref. (NAL Call No.: 47.8 AM33P).

2294

Migration of acetyl-tributylcitrate from plastic film into poultry products during microwave cooking.

Heath, J.L. Reilly, M. Champaign, Ill., Poultry Science Association. Poultry science. Oct 1981. v. 60 (10). p. 2258-2264. 13 ref. (NAL Call No.: 47.8 AM33P).

2295

Modifications of processing methods to control Salmonella in poultry.

POSCAL. Shackelford, A.D. Champaign, Ill. : Poultry Science Association. Poultry science. June 1988. v. 67 (6). p. 933-935. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2296

Organic chemicals and other factors in water reuse at a poultry processing plant.

Wachter, J.K. Andelman, J.B.; Beck, J.M.; Nolle, S. Denver, Colo. : AWWA Research Foundation ; Springfield, Va. : reproduced by NTIS, 1981. Proceedings of the Water Reuse Symposium II : held August 23-28, 1981, Washington, D.C. v.2, p. 862-880. ill. Includes references. (NAL Call No.: TD429.W3 1981).

2297

Origin and prevalence of Campylobacter jejuni in poultry processing.

Oosterom, J.J.FPRD. Norermans, S.; Karman, H.; Engels, G.B. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1983. v. 46 (4). p. 339-344. Includes references. (NAL Call No.: 44.8 J824).

2298

Practical problems of Salmonella control during processing of chickens.

May, K.N. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 257-261. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

2299

Prevalence of Campylobacter jejuni in eggs and poultry meat in New York state.

POSCAL. Baker, R.C. Paredes, M.D.C.; Qureshi, R.A. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1987. v. 66 (11). p. 1766-1770. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2300

Prevalence of Campylobacter jejuni in turkey carcass processing and further processing of turkey products.

JFPRDR. Acuff, G.R. Vanderzant, C.; Hanna, M.O.; Ehlers, J.G.; Golan, F.A.; Gardner, F.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1986. v. 49 (9). p. 712-717. Includes references. (NAL Call No.: DNAL 44.8 J824).

2301

Protection and productivity : the strategy for meat and poultry inspection in the 1980's. - (Washington, D.C.?) U.S. Dept. of Agriculture, Food Safety and Inspection Service 1984. "March 1984". 40 p. ; 28 cm. (NAL Call No.: aHD9410.9.U52U5).

2302

Reducing dust in the live-hang area of a poultry processing plant.

Dickens, J.A. Vaughn, R.E. Champaign, Ill., Poultry Science Association. Poultry science. May 1981. v. 60 (5). p. 1097-1098. ill. 1 ref. (NAL Call No.: 47.8 AM33P).

2303

Reduction of Salmonella on chicken carcasses by immersion treatments.

JFPRDR. Morrison, G.J. Fleet, G.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Using a tracer strain of Salmonella typhimurium and a direct-counting technique, a procedure was developed for evaluating the effect of immersion treatments on the Salmonella contamination of chicken carcasses. Immersion of carcasses in 60 C water for 10 min gave 100-fold reduction in Salmonella counts. Addition of 200 ppm chlorine or 2.5% potassium sorbate to the water increased the reductions to 1000-fold with elimination of Salmonella from most carcasses. Other immersion treatments were not as effective. Sensory evaluation indicated the acceptability of treated carcasses on the basis of appearance and flavour. (author). Journal of food protection. Nov 1985. v. 48 (11). p. 939-943. charts. Includes 24 references. (NAL Call No.: DNAL 44.8 J824).

2304

Relationship between incidence of Salmonella contamination among pre-scalded, eviscerated and postchilled chickens in a poultry processing plant.

McBride, G.B. Skura, B.J.; Yada, R.Y.; Bowmer, E.J. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians.

(FOOD PROCESSING, POULTRY)

Journal of food protection. July 1980. v. 43 (7). p. 538-542. ill. 29 ref. (NAL Call No.: 44.8 J824).

2305

Steam decontamination of whole and cut-up raw chicken.

POSCAL. Davidson, C.M. D'Aoust, J.Y.; Allewell, W. Champaign, Ill. ; Poultry Science Association. Poultry science. Apr 1985. v. 64 (4). p. 765-767. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2306

Survival and transport of bacteria in egg washwater.

APMBA. Pearson, J. Southam, G.G.; Holley, R.A. Washington, D.C. : American Society for Microbiology. Applied and Environmental microbiology. Sept 1987. v. 53 (9). p. 2060-2065. Includes references. (NAL Call No.: DNAL 448.3 AP5).

2307

U.S. inspected meat and poultry packing plants : a guide to construction and layout. -.

(Washington, D.C.) U.S. Dept. of Agriculture, Food Safety and Quality Service 1984. Cover title. 83 p. : ill., plans ; 28 cm. --. (NAL Call No.: 1 Ag84Ah no.570 1984).

2308

Using microwaves to reduce pollution from scalding chickens (in the slaughtering process).

Miller, B.F. AR-BARC. Kula, S.A.; Goble, J.W.; Enos, H.L. Springfield, Va., The Service. PB - U. S. National Technical Information Service. United States. National Technical Information Service. Aug 1978. Aug 1978. (289 761). p. 173-177. ill. 6 ref. (NAL Call No.: 157.8 R29).

FOOD PROCESSING, FISH AND AQUATIC

2309

**Radiation pasteurization of tropical
fish-Bombay duck (*Harpodon nehereus*).**

FOTEA. Sawant, P.L. Mavinkurve, S.S.; Saroja,
S.; Savagaon, K.A.; Kumta, U.S. Chicago, Ill. :
Institute of Food Technologists. Food
technology. Mar 1967. v. 21 (3A). p. 444-448.
Includes references. (NAL Call No.: DNAL 389.8
F7398).

FOOD STORAGE

2310

Antibiotics as food preservatives. Tetracycline antibiotics for flesh food preservation.

Tarr, H.L.A. Boca Raton, Fla. : CRC Press. CRC handbook series in zoonoses. Section A: Bacterial, rickettsial, and mycotic diseases. 1984. v. 1. p. 109-125. Includes references. (NAL Call No.: DNAL RC115.C7).

2311

Microbiological condition of broilers as influenced by vacuum and carbon dioxide in bulk shipping packs.

Bailey, J.S. AR-RRR. Reagan, J.D.; Carpenter, J.A.; Schuler, G.A. Chicago, Institute of Food Technologists. Extract: Effects of storage temperature, film permeability, carbon dioxide level and vacuum level on acceptability and shelf-life of fresh-processed poultry were determined. Significantly lower microbial counts and extended shelf-life were found when storage was at 2 degrees C instead of 5 degrees C, after 12 days storage when low permeable packaging film was used instead of high permeable film and after 15 days of storage when 65 percent CO (sub 2) was used instead of 20 percent CO (sub 2). Gra. Journal of food science. Jan/Feb 1979. v. 44 (1). p. 134-137. ill., charts. 25 ref.

2312

Potential application of microbial antagonism to extended storage stability of a flesh type food.

Raccach, M. Baker, R.C.; Regenstein, J.M.; Mulnix, E.J. Chicago, Institute of Food Technologists. Abstract: The shelf life of both refrigerated ground and mechanically deboned poultry meat was extended by 2 days using the resting cells of the starter cultures *Pediococcus cerevisiae* and *Lactobacillus plantarum*. The microbial population of the treated sample was 10 percent of that of the control at the onset of off-odor in the control. The lactic acid bacteria (LAB) did not decrease the pH of the meat. Fluorescent psychrotrophic colonies were not detected in the treated samples, but were prese. Journal of food science. Jan/Feb 1979. v. 44 (1). p. 43-46. ill. 22 ref.

FOOD STORAGE, LIVESTOCK

2313

Foodborne illness associated with a pig roast.

JFPRDR. Novotny, T. Dingman, J.D.; Pavia, A.
Ames, Iowa : International Association of Milk,
Food, and Environmental Sanitarians. Journal of
food protection. Nov 1987. v. 50 (11). p.
945-947. Includes references. (NAL Call No.:
DNAL 44.8 J824).

2314

Minimizing Salmonella contamination on broiler carcasses with poly (hexamethylenebiguanide hydrochloride) (Prechilling water).

Thomson, J.E. Cox, N.A.; Bailey, J.S.; Islam,
M.N. Ames, Iowa, International Association of
Milk, Food, and Environmental Sanitarians.
Journal of food protection. June 1981. v. 44
(6). p. 440-441, 444. 12 ref. (NAL Call No.:
44.8 J824).

2315

Sanitation, shrinkage, and loading patterns for meat shipping vehicles (for the transportation and distribution of fresh meat products through marketing and distribution channels).

Hoke, K.E. Boca Raton, Fla., CRC Press. CRC
handbook of transportation and marketing in
agriculture. 1981. v. 1. p. 363-372. Includes
12 ref. (NAL Call No.: HD9000.5.C7).

FOOD STORAGE, POULTRY

2316

Antioxidant control of rancidity development in ground turkey meat.

Olson, V.M. Stadelman, W.J. Champaign, Ill., Poultry Science Association. Poultry science. Dec 1980. v. 59 (12). p. 2733-2737. ill. 9 ref. (NAL Call No.: 47.8 AM33P).

2317

Campylobacter jejuni in vacuum packaged processed turkey.

JFPRDR. Reynolds, G.N. Draughon, F.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1987. v. 50 (4). p. 300-304. Includes references. (NAL Call No.: DNAL 44.8 J824).

2318

Chemical composition of the chalazae and their deterioration during storage of eggs.

Sato, Y. Kato, T. Champaign, Ill., Poultry Science Association. Poultry science. July 1980. v. 59 (7). p. 1416-1422. ill. 17 ref. (NAL Call No.: 47.8 AM33P).

2319

Effect of carbon dioxide flushing and packaging methods on the microbiology of packaged chicken.

JFDAZ. Thomas, Y.O. Kraft, A.A.; Rust, R.E.; Hotchkiss, D.K. Chicago, Ill. : Institute of Food Technologists. Abstract: Bacterial contaminants, odor, and slime were determined in dry-packed chicken broilers packaged by 3 different methods (carbon dioxide flushing; vacuum packaging; conventional stretch wrapping in air), stored in a display case at about 5 degrees C for up to 17 days. Carbon dioxide flushing produced the longest shelf life (with stretch wrapping in air, the least) and resulted in a unique snug package analogous to vacuum packaging. No differences in microbiological quality were noted between chicken located at the top and bottom of the package. (wz). Journal of food science. "Presented at the 43rd Annual Meeting of the Institute of Food Technologists, New Orleans, LA, June 1983." Sept/Oct 1984. v. 49 (5). p. 1367-1371. ill., charts. Includes 24 references. (NAL Call No.: DNAL 389.8 F7322).

2320

The effect of dietary fat and tocopherol on lipolysis and oxidation in turkey meat stored at different temperatures.

Sklan, D. PDSOA. Tenne, Z.; Budowski, P. Champaign : Poultry Science Association. Poultry science. Oct 1983. v. 62 (10). p. 2017-2021. Includes references. (NAL Call No.: 47.8 AM33P).

2321

Influence of oily bird syndrome on the shelf-life of fresh ice-packed broilers (Chicken meat).

Fletcher, D.L. Thomason, D.M.; Reagan, J.O.; Smith, D.D. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1982. v. 45 (9). p. 813-815. 12 ref. (NAL Call No.: 44.8 J824).

2322

Lipid oxidation in ground turkey skin and muscle during storage.

POSCAL. Whang, K. Peng, I.C. Champaign, Ill. : Poultry Science Association. Poultry science. Mar 1987. v. 66 (3). p. 458-466. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2323

Methods of preservation of poultry products.

Cunningham, F.E. Orlando : Academic Press, 1987. Abstract: Methods of preservation of poultry meat products are reviewed which are reported as reducing microbial load and prolonging shelf life. The following methods are used to prolong shelflife: antibiotics, sanitizers, food acids, controlled atmosphere, salts, disinfectants, coatings, heat treatment, polyphosphates, and ethanol. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 275-292. charts. Includes 83 references. (NAL Call No.: DNAL QR117.M5).

2324

Quality of frozen poultry as affected by storage and other conditions by Harold M. Harshaw ... (et al.) ; United States Department of Agriculture, Bureau of Animal Industry, Agricultural Chemistry and Engineering, and Home Economics and the Agricultural Marketing Service, in cooperation with the Institute of American Poultry Industries. -.

Harshaw, Harold M. Washington, D.C. U.S. Dept. of Agriculture 1941. 20 p. --. Includes bibliographical references. (NAL Call No.: Fiche S-69 no.768).

2325

Shelf-life and quality characteristics of poultry parts dipped in potassium sorbate.

Cunningham, F.E. Chicago, Institute of Food Technologists. Abstract: Fresh broiler poultry parts were dipped 30 or 60 seconds in solutions of 5.0%, 10.0% or 15% potassium sorbate or distilled water. Parts dipped in 10% potassium sorbate had a 20-day shelf-life at 4 C., based on off-odor development and plate counts. Those parts dipped in potassium sorbate for 30 seconds, drained, then baked had similar

tenderness and moisture retention values regardless of the sorbate concentration used. Solutions of 5 or 10% potassium sorbate used as a dip for 30 secon. Journal of food science. May/June 1979. v. 44 (3). p. 863-864. charts. 15 ref.

2326

Storage stability of Japanese quail (*Coturnix coturnix japonica*) eggs at room temperature.
POSCAL. Imai, C. Mowlah, A.; Saito, J.
Champaign, Ill. : Poultry Science Association.
Poultry science. Mar 1986. v. 65 (3). p.
474-480. Includes references. (NAL Call No.:
DNAL 47.8 AM33P).

2327

Storage stability of liquid egg products below 0 C.
POSCAL. Imai, C. Saito, J.; Ishikawa, M.
Champaign, Ill. : Poultry Science Association.
Poultry science. Sept 1986. v. 65 (9). p.
1679-1686. Includes references. (NAL Call No.:
DNAL 47.8 AM33P).

2328

Toxicology studies of irradiation-sterilized chicken.
JFPRDR. Thayer, D.W. Christopher, J.P.;
Campbell, L.A.; Ronning, D.C.; Dahlgren, R.R.;
Thomson, G.M.; Weirbicki, E. Ames, Iowa :
International Association of Milk, Food, and
Environmental Sanitarians. Journal of food
protection. Apr 1987. v. 50 (4). p. 278-288.
Includes references. (NAL Call No.: DNAL 44.8
J824).

2329

Weight change and spoilage of broiler carcasses--effect of chilling and storage methods (Chicken meat).
Thomson, J.E. Bailey, J.S.; Cox, N.A. Champaign
: Poultry Science Association. Poultry science.
Mar 1984. v. 63 (3). p. 510-517. Includes
references. (NAL Call No.: 47.8 AM33P).

MICROBIOLOGY OF FOOD PROCESSING

2330

Amino acid composition and microbial contamination of *Spirulina maxima*, a blue-green alga, grown on the effluent of different fermented animal wastes (Included swine, poultry and cattle manures, municipal sludge, swine blood slurry).

Wu, J.F. Pond, W.G. New York, Springer. Bulletin of environmental contamination and toxicology. Aug 1981. v. 27 (2). p. 151-159. 29 ref. (NAL Call No.: RA1270.P35A1).

2331

Growth and sporulation of *Clostridium perfringens* in foods.

Craven, S.E. Chicago, Institute of Food Technologists. Abstract: *Clostridium perfringens*-caused food poisoning outbreaks usually develop when food is eaten that is contaminated with spores or vegetative cells of the organism and then held under conditions allowing multiplication of the vegetative cells. Red meat and poultry products usually provide favorable conditions for contamination and growth, but other foods have occasionally been implicated. Conventional cooking procedures usually minimize chances of *C. perfringens* activity, but here is some question about the safety of microwave ovens and slow cookers. Growth temperatures usually range between 30 degrees C-47 degrees C. Holding temperatures after cooking are also critical, since incomplete or slow cooling can increase spore multiplication. Acidity (pH level), oxidation reduction, water activity, and protein supplements are also factors in spore growth. Food handling and preparation should be monitored carefully at each step to eliminate as far as possible the temperature range in which *C. perfringens* multiplies. Food technology. Apr 1980. Literature review. v. 34 (4). p. 80-87,95. charts. 109 ref. (NAL Call No.: 389.8 F7398).

2332

Methods for recovery of *Campylobacter jejuni* from foods.

Stern, Norman J. Ames : International Association of Milk, Food, and Environmental Sanitarians. Extract: The triangular relationship between *Campylobacter jejuni* (*C. jejuni*) foods, and disease in humans has been well-documented. Many studies have revealed that *C. jejuni* causes at least as many cases of human gastroenteritis as does *Salmonella*. *C. jejuni* has been found on the carcasses of poultry and other domestic animals throughout the world. The organism is microaerophilic and various methods for establishing appropriate growth conditions are available. Methods developed for use in clinical laboratories lack use in detecting small numbers of *C. jejuni* in foods. In 1 enrichment method for detecting *C. jejuni* in foods, washings are filtered and centrifuged, the sediment is suspended in the enrichment broth, and the suspension is incubated under a constant gas flow at reduced

oxygen levels. Following incubation, enrichment broth is filtered and plated onto selective media. In another recently-developed method, food samples are directly added to an enrichment broth with antibiotics and incubated under a microaerobic atmosphere before selective plating. Several selective media use several antibiotics to which *C. jejuni* is resistant. The plates are supplemented with horse or sheep blood, depending upon the specific formulation. The optimum temperature for growth of *C. jejuni* (about 42 degrees Centigrade) may also be used for selection. It is now possible to recover 0.1-1 cell of *C. jejuni* per 10-25 g of food sample from among 1 million to 1 billion indigenous bacteria. After a characteristic colony is isolated, the key criteria for presumptive identification of *C. jejuni* by phase-contrast microscopy are its darting, corkscrew motion and a comma-to-spiral shape. (author/wz). Journal of food protection. Dec 1982. Presented in part at the 1982 Annual Meeting of the American Society for Microbiology, Atlanta, GA. v. 45 (14). p. 1332-1337, 1341. ill., charts. Includes 54 references. (NAL Call No.: 44.8 J824).

2333

Microbial ecology of foods / J. Silliker ... (et al.). -.

International Commission on Microbiological Specifications for Foods. Silliker, J. H. New York Academic Press 1980. Abstract: An information source to help interpret the analyses of food microbiology has been compiled from the specialized knowledge of 30 scientists, on both theoretical and practical levels. The first volume covers environmental influences on growth and death of microorganisms (temperature, irradiation, acidity, antibiotics, packaging, etc.), the interactions of microbes in mixed populations, and the effects of cell injury on microbial survival. The second volume focuses on specific groups of commodities, such as meats, poultry, milk, eggs, fish, vegetables, cereals, spices, oils, and sweets. Information for each group includes the properties of the food that affect microbial content; the presence of microflora at slaughter or harvest; the effects of harvest, transport, processing and storage on food microorganisms; and methods of controlling microbes at all stages. 2 v. --. Includes bibliographies and index. (NAL Call No.: QR115.I5 F&N B-2724/5).

MICROBIOLOGY, DAIRY

2334

Excretion rates of antibiotics in milk of sheep and their effect on yogurt production.

Anifantakins, E.M. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Mar 1982. v. 65 (3). p. 426-429. Includes 14 ref. (NAL Call No.: 44.8 J822).

2335

Keeping quality and flavor, and microorganisms, proteases and lipases in raw cow and goat milk at collection and after storage.

Hankin, Lester. Shields, Donald. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Raw cow and goat milks for retail sale in Connecticut were examined at collection and after storage at 4.4 and 7.2 degrees C for 7 days for keeping quality, flavor, microorganisms, protein degradation on storage, and protease and lipase activity. Some milks were bottled at the farm, others were placed in containers supplied by the customer. Goat milk retained a satisfactory flavor significantly longer than cow milk. There was no correlation of keeping quality with any microbial count made at collection except for number of coliform bacteria. Significant differences were found in enzyme activity and protein degradation between cow and goat milk. No significant difference was found between milk bottled at the farm and that collected in sterile containers. Over 82% of raw milk samples met the 30,000 per ml state standard for total aerobic count (SPC) and 72% met the coliform standard of 50 per ml. (author). Journal of food protection. Oct 1983. v. 46 (10). p. 873-877. charts. Includes 13 references. (NAL Call No.: 44.8 J824).

2336

Loss of viability by *Listeria monocytogenes* in commercial calf rennet extract.

JFPRDR. El-Gazzar, F.E. Marth, E.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1988. v. 51 (1). p. 16-18. Includes references. (NAL Call No.: DNAL 44.8 J824).

MICROBIOLOGY, LIVESTOCK

2337

Fermented meat and poultry products.

Bacus, J.N. Westport, Conn. : AVI Publishing Company. Advances in meat research. Literature review. 1986. v. 2. p. 123-164. Includes references. (NAL Call No.: DNAL TS1960.A33).

2338

Influence of two levels of hygiene on the microbiological condition of veal as a product of two slaughtering/processing sequences.

Smulders, Frans J.M. Woolthuis, Caspar H.J. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: In 2 experiments involving 2 groups of 20 calves each, the microbiological condition of veal produced in an alternative (Electrical Stimulation/Hot Boning) and a conventional (No Stimulation/Cold Boning) slaughtering/boning sequence was investigated. Two levels of hygiene were practiced, i.e. (a) "strictly hygienic" by using surgical gloves and disinfected knives, and (b) "hygienic" by using no gloves and only one (visually) clean knife at the start of incision. All hot-boned cuts were sprayed with a 1% v/v L-lactic acid solution, vacuum packed and immersed in icewater. Hot- and cold-boned cuts were stored at 2 degrees C, as vacuum packs during 6 days and exposed to air for an additional week. Using a destructive method, samples for microbiological examination were taken from the 8-10th rib section of the dorsal carcass surface at the end of the slaughterline as well as before boning, and from the epimysium of longissimus cuts immediately after boning, 7 days post mortem (p.m.) upon opening vacuum packs and 14 days p.m. As compared with "hygienic" boning, "strictly hygienic" boning resulted in a significant decrease in aerobic colony count on longissimus cuts. An effect of lactic acid decontamination could not be demonstrated earlier than 7 days after opening of vacuum packs (14 days p.m.). Counts of Enterobacteriaceae and yeasts and molds were extremely low under all experimental conditions. No salmonellae could be isolated from any sample. (author). Journal of food protection. Dec 1983. v. 46 (12). p. 1032-1035. charts. Includes 32 references. (NAL Call No.: 44.8 J824).

2339

Microbiological survey of frozen ground meat and a proposed standard.

Mates, A.JFPRD. Ames : International Association of Milk, Food, and Environmental Sanitarians. Extract: A microbiological survey of frozen ground meat was conducted over the 5-year period of 1975-1980. Analyses were made of 519 samples of frozen ground beef and 172 samples of frozen ground fowl. Bacteriological tests performed included aerobic plate count (APC), staphylococcus aureus, Streptococcus faecalis and Salmonella. A proposed standard limiting distribution of the various bacteria found in frozen ground meat was proposed. The

data indicated that frozen ground fowl was heavily contaminated (33%) with Salmonella and that this product should not be processed. (author/wz). Journal of food protection. Feb 1983. v. 46 (2). p. 87-89. charts. Includes 17 references. (NAL Call No.: 44.8 J824).

2340

Survival of Campylobacter jejuni during poultry processing and pig slaughtering.

Oosterom, J. De Wilde, G.J.A.; De Boer, E.; De Blaauw, L.H.; Karman, Hetty. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Experiments were done to assess the survival of Campylobacter jejuni during different stages of poultry processing and pig slaughtering. Natural sources of Campylobacter contamination, i.e., spinchiller water, chicken intestinal contents and pig feces, were used for this purpose. C. jejuni in chicken intestinal contents had D-values ranging from 0.18 to 0.39 min at 60 degrees C to 1.96 to 10.82 min at 52 degrees C. Experiments with surfaces of pig carcasses contaminated with pig feces and held in the cooling room of a pig slaughterhouse showed an overnight reduction of campylobacter until below the detection level. Further experiments in the laboratory showed that this reduction was due to drying of the skin surface. C. jejuni was very sensitive to drying. When contaminated spinchiller water was spread on tiles of different materials (aluminium, stainless steel, Formica and ceramic), the organism survived as long as a moistened surface could be observed. They could not be isolated once surfaces were visually dry. Freezing affected C. jejuni only during the first few hours; after an initial drop of number, Campylobacter could survive on chicken carcasses and chicken livers at -20 degrees C for more than 64 and 84 days, respectively. (author). Journal of food protection. Aug 1983. v. 46 (8). p. 702-706, 709. charts. Includes 29 references. (NAL Call No.: 44.8 J824).

MICROBIOLOGY, POULTRY

2341

Fermented meat and poultry products.

Bacus, J.N. Westport, Conn. : AVI Publishing Company. Advances in meat research. Literature review. 1986. v. 2. p. 123-164. Includes references. (NAL Call No.: DNAL TS1960.A33).

2342

Fermented mechanically deboned poultry meat and survival of *Staphylococcus aureus*.

Raccach, M. Baker, R.C. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Abstract: Mechanically deboned poultry meat (MDPM) was used to formulate a fermented sausage product prepared by a natural lactic acid fermentation. Salted MDPM stored at 5 degrees C promoted growth of lactobacilli. The population of indigenous *Staphylococcus aureus* decreased to below a detectable level, but no change was observed in the population of added *S. aureus*. The MDPM attained a pH of 4.7 after 60 hours of fermentation with a corresponding developed acidity of 1.6 percent expressed as lactic acid. The heat treatment given to the sausage brought about a reduction in the population of both the lactobacilli and *S. aureus*. Effects of various acids and heat treatments are reported. Journal of food protection. Mar 1979. v. 42 (3). p. 214-217. ill., charts. 16 ref. (NAL Call No.: 44.8 J824).

2343

The Microbiology of poultry meat products /edited by F.E. Cunningham, N.A. Cox.

Cunningham, Frank E.; Cox, N. A. Orlando : Academic Press, 1987. Abstract: A reference text for industry and quality assurance personnel in the poultry meat industry presents 13 authoritative reviews by experts in their respective fields covering various aspects of the determination of poultry meat microbiology. The first 3 reviews cover the various types of microorganisms affecting poultry meat and their classification and identification. The remaining reviews address microbial considerations during processing, including the areas of: USDA regulations; contamination during processing; microbiological problems associated with refrigeration, freezing, and canned storage; and established methods to ensure poultry preservation. Numerous tabular data and references are presented throughout the text. ix, 359 p. : ill. ; 24 cm. Includes bibliographies and index. (NAL Call No.: DNAL QR117.M5).

MICROBIOLOGY, FISH AND AQUATIC

2344

Meats, poultry, and seafoods.

Jay, J.M. New York : Von Nostrand Reinhold, 1987. Food and beverage mycology / edited by Larry R. Beuchat. p. 155-173. ill. Includes references. (NAL Call No.: DNAL QR115.F59 1987).

FOOD CONTAMINATION AND TOXICOLOGY

2345

Antibiotics in our food supply.

New York : Environmental Nutrition, Inc.
Abstract: A brief overview article discusses the case against and for the use of antibiotics in foods with regard to human safety. The concern is that meat derived from livestock raised on antibiotic-treated feeds may result in a situation in which bacteria that might have competed with *Salmonella* have been killed off, allowing the *Salmonella* or other antibiotic-resistant bacteria to flourish. This represents a potentially serious concern in that 40% of the antibiotics produced in the US are fed to animals, including poultry as well as livestock. In 1977 FDA sought to ban the use of 2 antibiotics used in animal feeds (penicillin and tetracycline), and an FDA report on these is planned for March 1985. Arguments of the proponents and critics of such bans are discussed. (wz). Environmental nutrition newsletter. Jan 1985. v. 8 (1). p. 1-2. (NAL Call No.: DNAL FNC TX341.E5 F&N).

2346

Application of short-term tests to safety testing of industrial chemicals (Drugs, food and food additives, and pesticides, air or water pollutants and chemical residues in crops or in tissue of meat, fish, or poultry).

Schreiner, C.A. ANYAA. New York : The Academy. Annals of the New York Academy of Sciences. 1983. v. 407. p. 367-373. Includes references. (NAL Call No.: 500 N484).

2347

Botulism from meat and poultry products--A historical perspective.

Tompkin, R.B. Chicago, Institute of Food Technologists. Abstract: Efforts to discontinue use of nitrite in foods, because carcinogenic nitrosamines may be formed in cured meat, raises the question of the role that nitrite plays in prevention of botulism. Among the recorded outbreaks of botulism in the US and Canada from meat and poultry products, 51 were caused by home processed meats and 15 by commercially manufactured meats. Although there are many more outbreaks recorded in other countries, the case-fatality-ratio is lower in Europe. Pork products are a major source of botulism, probably because they are processed more often than meat and poultry, which is usually consumed fresh. Botulism prevention in meats is still poorly understood. Surveys measuring botulism in meat and poultry products found the incidence to be low, but total absence from meat is unlikely. Although the risk of botulism varies throughout the world, the risk is clearly present. (kbc). Food technology. May 1980. v. 34 (5). p. 229-236, 257. charts. 72 ref. (NAL Call No.: 389.8 F7398).

2348

Campylobacter in foods.

Doyle, M.P. Boca Raton, Fla. : CRC Press, c1984. *Campylobacter* infection in man and animals / editor, Jean-Paul Butzler. p. 163-180. Includes 46 references. (NAL Call No.: DNAL QR201.C25C35).

2349

Campylobacter infections: the emerging national pattern.

Tauxe, R.V. Pegues, D.A.; Hargrett-Bean, N. Washington, D.C. : American Public Health Association. Extract: In the United States, 8,837 *Campylobacter* isolates and eight outbreaks of *Campylobacter* infections were reported in 1984, a national isolation rate of 4.9/100,000. *C. jejuni* represented 99 per cent of reported isolates. Age-specific incidence was highest among infants (11/100,000), and young adults (8/100,000); infants in the second month of life were at highest risk. An unexplained nationwide November peak, not observed in previous years, occurred in all age groups and suggests there is an homogeneous nationwide source for this infection. (author). American journal of public health. Sept 1987. v. 77 (9). p. 1219-1221. ill., charts. Includes 20 references. (NAL Call No.: DNAL 449.9 AM3J).

2350

Case against milk.

McDougall, John. New York : Vegetarian Life & Times, Inc. Abstract: A growing body of evidence indicates that milk is not "nature's most perfect food" and the risks associated with it may be greater than the benefits. On the negative side, milk is associated with severe allergies and may interfere with the body's immune system, and it also concentrates environmental poisons. Even human milk may have high levels of toxic substances. Some people, especially adult Blacks and Asians, cannot digest milk properly. Among the factors cited as risks are the possibility of contamination by disease-causing bacteria and the lack of linoleic acid in cows' milk leading to improper development of the infant's nervous system with the risk of multiple sclerosis occurring later in life. (emc). Vegetarian times. March 1985. (91). p. 34, 36-37. charts. (NAL Call No.: DNAL FNC TX392.A1V4 F&N).

2351

Coliforms and Enterobacteriaceae isolates from selected foods.

Mercuri, A.J. Cox, N. A. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Abstract: Coliform and Enterobacteriaceae were obtained from 5 food products, using violet red bile agar (VRB) and VRB+1% glucose (VRBG). About 80% of VRB isolates from mechanically deboned poultry (MDPM) and from broiler skin met all criteria

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for fecal coliforms; only 36.5% and 62.5%, respectively, of VRBG isolates met these criteria. Less than 10% of VRB and VRBG isolates from ground beef, pork sausage, or chicken pot pie produced gas in LST broth. Fecal coliforms and *Escherichia coli* (TYPE I or II) percentages among 179 VRB isolates were 34.1% and 33.5% ; among 193 VRBG isolates, corresponding numbers were 20.7% and 19.7%. *E. Coli* was the predominant species isolated from MDPM and broiler skin; *Enterobacter agglomerans* from pork sausage and chicken pot pie; and *Serratia liquifaciens* predominated in ground beef. Journal of food protection. Sept 1978. v. 42 (9). p. 712-714. charts. 16 ref. (NAL Call No.: 44.8 J824).

2352

Comparative mutagenicity of dimethylnitrosamine and diethylnitrosamine (Food toxicity, mammals, fowl, fish).

Sankaranarayanan, K. New York, Plenum Press. Environmental science research. 1982. v. 24. p. 787-855. ill. 151 ref. (NAL Call No.: TD172.E55).

2353

Comparative study of Micro-ID, Minitex and conventional methods with Enterobacteriaceae freshly isolated from foods.

Cox, N.A. Mercuri, A.J.; Carson, M.O.; Tanner, D.A. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians.

Abstract: In order to determine the effectiveness of 2 testing kits, 400 *Enterobacteriaceae* isolates freshly taken from pork sausage, ground beef, broiler carcasses, raw shrimp, pre-wrapped sandwiches, fresh strawberries, lettuce, and raw carrots were inoculated into the 15 biochemical tests of the Micro-ID system and the 15 corresponding tests in the Minitex and conventional systems. Overall agreement between Micro-ID and conventional systems was 96.8% and 93.6% between Minitex and conventional tests. Three laboratory technicians independently recorded results of 6,000 biochemical tests from each of the 3 systems and were in complete agreement for 99.7%, 98.9%, and 99.3% of conventional, Minitex, and Micro-ID tests. Results obtained with the miniaturized systems were as easy to read and interpret as conventional tests in tubes. Journal of food protection. Sept 1978. v. 42 (9). p. 735-738. charts. 28 ref. (NAL Call No.: 44.8 J824).

2354

Comparison of AOAC method and fluorogenic (MUG) assay for enumerating *Escherichia coli* in foods.

JFDAZ. Peterson, E.H. Nierman, M.L.; Rude, R.A.; Peeler, J.T. Chicago, Ill. : Institute of Food Technologists. Abstract: A fluorogenic assay was compared with the AOAC standard "most probable number" method for determining the

level of *E. coli* applied at different levels to several different foods (pecans, shrimp, chicken pot pies). Statistical analysis revealed that the fluorogenic assay provided values that ranged from 22% lower to 92% higher than the AOAC method. It was determined that the fluorogenic assay method is more rapid, and requires less labor and media than the AOAC method.(wz). Journal of food science. Mar/Apr 1987. v. 52 (2). p. 409-410. charts. Includes 13 references. (NAL Call No.: DNAL 389.8 F7322).

2355

Contamination of the food chain by polychlorinated biphenyls from a broken transformer.

Drotman, D. Peter. Baxter, Peter J.; Liddle, John A.; Brokopp, Charles D.; Skinner, Martin D. Washington : American Public Health Association. Extract: In 1979, a widespread distribution of chicken and egg food products and grease contaminated with polychlorinated biphenyl (PCBs) occurred across the US to as far away as Canada and Japan. The contamination was traced to an accidental leakage of PCBs from a transformer stored in a hog slaughtering plant in Montana. Breast milk analyses showed the PCB absorption had occurred among egg consumers. The episode illustrates the need for heightened vigilance of the fate of PCBs still in use. (author). American journal of public health. March 1983. v. 73 (3). p. 290-292. ill. Includes 12 references. (NAL Call No.: 449.9 AM3J).

2356

Cost effectiveness of purging cows of heptachlor: a preliminary analysis.

AKFRA. Berry, C.R. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. May/June 1986. v. 35 (3). p. 10. (NAL Call No.: DNAL 100 AR42F).

2357

Current trends in foodborne salmonellosis in the United States and Canada.

Bryan, Frank L. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Extract: In the United States, *Salmonella* has been isolated from over 31,000 persons during 1979; this figure is more than 60% higher than isolations made 18 years earlier. In Canada, the change from about 5,000 isolations in 1977 to more than 8,000 in 1979 is also a 60% increase, but over an interval of only 3 years. Salmonellosis accounted for 40% of reported cases of foodborne disease in the U.S. during 1973-78 and for 39% of all reported cases in Canada during 1973-75. Foods most frequently reported as vehicles of salmonellosis in the U.S. were beef, turkey, homemade ice cream, pork and chicken. Turkey was the most frequently reported vehicle in

Canada. Factors contributing to outbreaks are improper cooling, lapse of a day or more between preparation and serving, inadequate cooking or heat processing, ingestion of contaminated raw ingredients, and cross-contamination. Factors that perpetuate the problem are Salmonella-contaminated animal byproducts and feed; concentrating animals in feed lots and brooding houses; spreading Salmonella during animal slaughtering, and processing foods of animal origin; national and international distribution of food and feeds; food preparation and storage practices in foodservice establishments and homes; and environmental contamination from animal wastes and other sources. (author/nm). Journal of food protection. May 1981. v. 44 (5). p. 394-401. ill., charts. 53 ref. (NAL Call No.: 44.8 J824).

2358

Cysticercosis: A Major threat to human health and livestock production.

FOTEA. Flisser, Ana. Chicago, Ill. : Institute of Food Technologists. Abstract: Taenia tapeworm larvae in infected livestock produce bovine, ovine, caprine, and porcine cysticercosis, resulting in meat carcass contamination. The epidemiological incidence of infestation of such larvae, and steps that should be undertaken to control cysticercosis (and taeniasis, produced by adult Taenia), are reviewed and discussed. One of the Taenia species, Taenia solium, produces cysticercosis in humans; human neurocysticercosis being a serious disease and a public health problem in Asia and Latin America. Immunological methods for the diagnosis of cysticercosis are available. (wz). Food technology. March 1985. v. 39 (3). p. 61-64. ill. Includes 36 references. (NAL Call No.: DNAL 389.8 F7398).

2359

Economic impact of colonization control on foodborne disease.

FOTEA. Kvenberg, J.E. Archer, D.L. Chicago, Ill. : Institute of Food Technologists. Abstract: A technical review discusses the incidence of illness produced in the US caused by foodborne disease due to Salmonella spp., Campylobacter spp., and Yersinia in meats and poultry, and the implied associated economic impact. A brief review of recent studies concerning the incidence of foodborne disease associated with productivity losses is followed by separate discussions of specific incidences of foodborne disease attributed to Salmonella, Campylobacter, or Yersinia. It is argued that the exclusion of such pathogens from livestock by intentional colonization with competitive non-pathogens could greatly reduce human food-borne disease and its associated costs. (wz). Food technology. Based on paper presented at IFT Food Microbiology Div Prog, "Foodborne disease as influenced by colonization control of enteropathogens in poultry and livestock," at an mtg of Inst of Food Tech, June 16-19, 1987, Las Vegas, NV.

July 1987. v. 41 (7). p. 77-98 (not consecutive). Includes 32 references. (NAL Call No.: DNAL 389.8 F7398).

2360

Effect of the trichothecene deoxynivalenol on brain biogenic monoamines concentrations in rats and chickens.

JPFCD2. Fitzpatrick, D.W. Boyd, K.E.; Wilson, L.M.; Wilson, J.R. New York, N.Y. : Marcel Dekker. Journal of environmental science and health : Part B : Pesticides, food contaminants, and agricultural wastes. 1988. v. 23 (2). p. 159-170. Includes references. (NAL Call No.: DNAL TD172.J61).

2361

Enumeration and reduction of Campylobacter jejuni in poultry and red meats.

JFPRDR. Stern, Normsn J. Rothernberg, Paul J.; Stone, Jacqueline M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Abstract: A bacteriological study 1) evaluated optimum counting procedures for estimating the levels of Campylobacter jejuni in poultry, 2) assessed whether equivalent concentrations of blood supplementation in enrichment is needed to recover C. jejuni from chicken and ground beef, and 3) evaluated potential methods for reducing or eliminating C. jejuni from chickens by organic acid wash (lactic or acetic acid) or freeze/thaw-treatment. Optimum counts were obtained by the rapid and simple method of direct plating on Campy-BAP medium. Blood supplementation decreased C. jejuni recovery from chicken. Both organic acid wash and freezing/thawing reduced C. jejuni levels in chicken, while the latter method reduced these levels over 100-fold that of untreated chicken. (wz). Journal of food protection. July 1985. v. 48 (7). p. 606-610. ill., charts. Includes 12 references. (NAL Call No.: DNAL 44.8 J824).

2362

Environmental contaminants' potential reduction by the cooking of meat, poultry, and fish.

Zabik, Mary E. Denver : American School Food Service Association. Extract: This paper reviews several research papers that document the effect of cooking on the levels of pesticides and other environmental contaminants in meat, fish, and poultry. The general food supply is monitored for halogenated hydrocarbon contaminants; residues are decreasing. In addition, cooking meat, fish, and poultry generally reduces the level of residues in the cooked meat. The primary mode of removal is rendering with fat, but these halogenated hydrocarbons will co-distill if sufficient surface area and cooking time allow. Moreover, because these environment contaminants are fat soluble compounds, trimming excess fat from fish caught from lakes or rivers with known contaminants of polychlorinated biphenyls

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(PCBs) will reduce their presence. (author).
School foodservice research review. Spring
1984. v. 8 (1). p. 17-21. ill., charts.
Includes 20 references. (NAL Call No.: DNAL FNC
LB3473.A1S3 F&N).

2363

Epidemiological aspects of Clostridium perfringens foodborne illness.

Hatheway, C.L. Whaley, D.N.; Dowell, V.R. Jr.
Chicago, Institute of Food Technologists.
Abstract: A 1945 report on 4 outbreaks of
foodborne illness directly identified
Clostridium perfringens in cooked chicken as
the cause. Beef, poultry, meat pies, stews, and
gravies are usually responsible for the
illness; food safety standards have been
ignored in part or in total. Five toxin types
are based on 4 major deadly toxins: alpha,
beta, epsilon, and iota. Spores with high heat
resistance are implicated in this illness;
further study shows strains causing foodborne
illness are not restricted to heat-resistant
types. Serotyping procedures, developed by the
Communicable Disease Center (CDC) in Atlanta
are being used to identify and confirm C.
perfringens as the etiologic agent in foodborne
illness. CDC personnel indicate the need for
development of simpler laboratory techniques
which can be used by local and state public
health laboratories. Food technology. Apr 1980.
Literature review. v. 34 (4). p. 77-79,90.
charts. 19 ref. (NAL Call No.: 389.8 F7398).

2364

Evaluation of the Swab Test on Premises, the Calf Antibiotic and Sulfa Test, and a Microbial Inhibitor Test with standard solutions of 22 antibiotics.

JFPRDR. Korsrud, G.O. Macneil, J.D. Ames, Iowa
: International Association of Milk, Food, and
Environmental Sanitarians. Journal of food
protection. Jan 1988. v. 51 (1). p. 43-46.
Includes references. (NAL Call No.: DNAL 44.8
J824).

2365

Experimental infection by waterborne enteroviruses (Human viruses, porcine enteroviruses, drinking water).

Cliver, D.O. Ames, Iowa, International
Association of Milk, Food, and Environmental
Sanitarians. Journal of food protection. Nov
1981. v. 44 (11). p. 861-865. 18 ref. (NAL Call
No.: 44.8 J824).

2366

Federal Meat and Poultry Products Inspection Act of 1983 : hearing before the Committee on Agriculture, Nutrition, and Forestry, United States Senate, Ninety-eighth Congress, first session, on S. 593 ... July 21, 1983. -.

United States ~ Congress ~ Senate ~ Committee
on Agriculture, Nutrition, and Forestry.
Washington, D.C. U.S. G.P.O. 1983. iv, 125 p. ;
24 cm. --. (NAL Call No.: KF26.A35 1983f).

2367

Fermented meat and poultry products.

Bacus, J.N. Westport, Conn. : AVI Publishing
Company. Advances in meat research. Literature
review. 1986. v. 2. p. 123-164. Includes
references. (NAL Call No.: DNAL TS1960.A33).

2368

Food borne contaminants widespread, studies say.

Washington, D.C. : Community Nutrition
Institute. Abstract: A brief report highlights
the finding of 2 recent studies that bacterial
contamination of US meat and poultry products
is widespread, noting that the poultry industry
is opposed to proposed US federal methods for
reducing this public health hazard. The
findings of the studies are reported, and
summary data are presented on the contamination
occurrence found for 5 bacterial categories in
chicken breast and roast and ground beef.(wz).
Nutrition week. Dec 4, 1986. v. 16 (48). p.
6-7. charts. (NAL Call No.: DNAL TX341.C6).

2369

Food contamination: widespread, increasing.

Washington, D.C. : Community Nutrition
Institute. Abstract: A special report provides
data illustrating the increase in foodborne
illnesses in the US, up to half of which
resulted from contaminated meat and poultry,
particularly from Salmonella and Campylobacter.
These 2 bacteria are separately discussed with
respect to their contamination levels and
health impacts. Infants, elderly, malnourished,
and people with an immune deficiency are most
susceptible. Human and economic costs
associated with such illnesses are
discussed.(mjs). Nutrition week. Apr 2, 1987.
v. 17 (14). p. 4-5. ill. (NAL Call No.: DNAL
TX341.C6).

2370

Food poisoning and traveller's diarrhea.

Morgan, B.L.G. New York : Columbia University,
Institute of Human Nutrition. Abstract: A
technical report provides background
information and practical guidelines to aid
travellers in reducing the risk for food
poisoning and resultant diarrhea, including

characteristic symptoms and precautions that can be taken. Specific information is given on: the types of bacterial (staphylococcus; botulism; clostridium perfringens; salmonella; escherichia coli; etc.) and non-bacterial (mushroom/toadstool; fish; shellfish) poisonings and the symptoms they produce; how to treat and how to avoid food poisoning; ways to reduce food poisoning risk (cooking; cold storage of meat, poultry, and other foods); and ways to avoid traveller's diarrhea.(wz). Nutrition and health. 1987. v. 9 (2). p. 1-6. charts. (NAL Call No.: DNAL TX341.N838).

2371

Food safety: consumers report their concerns. Kramer, C.S. Penner, K.P. Washington, D.C. : The Service. Abstract: Determining the food safety concerns of consumers in the 1980's was the goal of a 1983 Kansas State University Survey. When asked to rank food safety hazards according to their severity, consumers chose: environmental contaminants; disease-causing organisms; pesticides; and animal drug or hormone residues. The relatively low ranking of food additives contrasted with previous studies. Red meats, poultry, and dairy products were cited as the food groups of greatest concern. Processing plants were cited as the most likely places to introduce contaminants to food. Consumers are more aware than ever of food safety, and although the majority feels that certain chemicals are important for food production, most fear that additives, pesticides, and other chemicals are possible health hazards.(lsp). National food review NFR - United States Dept. of Agriculture, Economic Research Service. Spring 1986. (33). p. 21-24. ill., charts. Includes 8 references. (NAL Call No.: DNAL FNC aHD9001.N275).

2372

Foodborne diseases: aflatoxicosis. Patterson, D.S.P. Boca Raton, Fla. : CRC Press, c1983. CRC handbook of foodborne diseases of biological origin / editor, Miloslav Rechcigl, Jr. Literature review. p. 323-351. Includes 255 references. (NAL Call No.: DNAL RA1258.C7).

2373

Foodborne illness caused by Escherichia coli: A review.

Kornacki, Jeffrey L.JFPRD. Marth, Elmer H. Ames : International Association of Milk, Food, and Environmental Sanitarians. Extract: Enteropathogenic Escherichia coli (EEC) can be defined as any strain of E. coli that has the potential to cause diarrheal illness. Four major categories of EEC exist. Classical enteropathogenic E. coli (EPEC) commonly refers to serogroups of E. coli historically associated with outbreaks of diarrhea in young children and infants. Facultatively enteropathogenic E. coli (FEEC) are non-EPEC serogroups associated with sporadic diarrhea,

and include many serogroups associated with the normal intestinal flora. Enterotoxigenic E. coli (ETEC) is commonly isolated from outbreaks of traveler's diarrhea, and includes those strains which produce a heat-stable enterotoxin (ST) only, a heat-labile enterotoxin(LT) only and those which produce both ST and LT. Many techniques currently exist to determine the presence of enterotoxins produced by a particular strain of E. coli. These include bioassay, tissue culture and in vitro immunological techniques. Of the newer in vitro immunological methods, the staphylococcal coagglutination technique to detect LT seems to have potential for routine use in diagnostic microbiology laboratories. Since large numbers of EEC are necessary for diarrhea, an unsanitary environment is needed for transmission of illness. Presence of EEC varies geographically; however, E. coli diarrhea is not likely to occur in the more hygienic areas of the world, except in occasional common-source outbreaks where the organism has time to replicate in food or water. The following foods have been implicated in documented E. coli diarrheal outbreaks worldwide: meat and meat products, fish, poultry, milk and dairy products, vegetables, baked products, rice formulations, coffee substitutes and water. (author). Journal of food protection. Sept 1982. Literature review. v. 45 (11). p. 1051-1067. Includes 96 references. (NAL Call No.: 44.8 J824).

2374

Foodborne illnesses and deathshearing before the Committee on Agriculture, Nutrition, and Forestry, United States Senate, One Hundredth Congress, first session, June 4, 1987. United States.~Congress.~Senate.~Committee on Agriculture, Nutrition, and Forestry. Washington D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1988. Abstract: A major congressional report presents the full testimony of a 1987 hearing before the US Senate on incidence of foodborne illness and mortality due to food contaminants, and food safety requirements for reducing such risks. The report includes the statements of 9 Senators and testimony by 5 witnesses. The witnesses include leaders from the USDA Food Safety and Inspection Service, the Center for Infectious Diseases, the FDA Center for Food Safety and Applied Nutrition, the USDA Economic Research Service, and the National Association of Federal Veterinarians. Ancillary material submitted for the record is appended. Attention is given to the incidence and cost of US foodborne disease. Distributed to some depository libraries in microfiche. iii., 110 p. : ill. ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF26.A35 19871).

2375

Foodborne viruses: Their importance and need for research.

JFPRDR. Blackwell, John H. Oliver, Dean O.; Callis, J.J.; Heidelbaugh, Norman D.; Larkin, Edward P.; McKercher, Peter, D.; Thayer, Donald W. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: All viruses known to be normally transmissible through foods and of concern to human health emanate from the human intestine. The outbreaks of hepatitis A and recently of gastroenteritis attributed to Norwalk-like viruses most likely developed from feces-contaminated fingers of infected food handlers or water polluted with feces. With few exceptions no recorded outbreak has depended on the ability of virus to withstand even limited heating in food. New and better methods of detection are needed for hepatitis A and Norwalk viruses in foods. It has been well documented that international trade in food products of animal origin can result in the introduction of animal disease into areas in which the disease does not exist. This fact has given rise to programs in which the disease does not exist. This fact has given rise to programs of research and development for industrially applicable technology to rid animal products from the agents of animal diseases. The survival of viruses inclusive of etiological agents of foot-and-mouth disease, African swine fever, swine vesicular disease and hog cholera virus is reviewed in this paper and new research approaches are suggested. The general need for additional research of foodborne viruses is discussed. (author). Journal of food protection. Aug 1985. v. 48 (8). p. 717-723. charts. Includes 51 references. (NAL Call No.: DNAL 44.8 J824).

2376

Germ wars: cleaning up our food.

Blume, E. Washington, D.C. : Center for Science in the Public Interest. Abstract: Microbial contamination of our food supply is thought by some authorities to be one of the nation's most important health issues. Although generally unpleasant but not serious, bacteria such as staphylococcus and salmonella can be serious or fatal for infants, fetuses, and the elderly. Certain strains have become antibiotic-resistant. The main offenders, raw meat, poultry, eggs, fish, and dairy products have room for inspection improvement to ensure better processing quality. Inspection procedures now in progress, recommendations for improvement, and characteristics of foodborne diseases are discussed.(jd-b). Nutrition action health letter. June 1986. v. 13 (6). p. 1, 4-6. ill. Includes 16 references. (NAL Call No.: DNAL TX341.N98).

2377

Growth and anatomical characteristics of pullet chicks fed diets contaminated with crude petroleum.

BECTA. Nwokolo, E. Ohale, L.O.C. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Sept 1986. v. 37 (3). p. 441-447. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

2378

Growth of staphylococcus aureus S-6 and Yersinia enterocolitica CDC A2635 in cow, soy and winged bean milks.

JFQUD. Rhodehamel, E.U. Reddy, N.R.; Pierson, M.D. Westport, Conn. : Food & Nutrition Press. Journal of food quality. 1987. v. 9 (6). p. 387-398. Includes references. (NAL Call No.: DNAL TP373.5.J6).

2379

Hematological toxicology following embryonic exposure to aflatoxin-B1 (Mycotoxins, chick embryos).

Dietert, R.R.PSEBA. Bloom, S.E.; Qureshi, M.A.; Nanna, U.C. New York : Academic Press. Proceedings of the Society for Experimental Biology and Medicine. Sept 1983. v. 173 (4). p. 481-485. Includes references. (NAL Call No.: 442.9 S01).

2380

Improving sanitation and federal inspection at slaughter plants : how to get better results for the inspection dollar : report to the Congress / by the Comptroller General of the United States. -.

United States ~ General Accounting Office. (Washington, D.C.) U.S. General Accounting Office ; for sale by Supt. of Docs. 1981. Cover title ~CED-81-118 ~B-203654. v. 60 p. : ill. ; 28 cm. Includes bibliographical references. (NAL Call No.: HD9410.9.U5U5).

2381

Incidence and toxigenicity of Aeromonas species in retail poultry, beef and pork.

JFPRDR. Okrend, A.J.G. Rose, B.E.; Bennett, B. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. June 1987. v. 50 (6). p. 509-513. Includes references. (NAL Call No.: DNAL 44.8 J824).

2382

Incidence of Salmonella in pork and poultry products.

Duitschaeffer, C.L. Buteau, Carole. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Abstract: Two hundred twenty-three samples of pork sausage, ground pork, pork chops, barbecued pork, turkey sausage, and chicken pieces were analyzed. The presence of salmonella was shown in 16.14% of the samples. This finding indicates that a significant portion of fresh pork products found in the Canadian retail market is contaminated with salmonella, and that fresh chicken and turkey sausage are potentially dangerous sources of this pathogen. Journal of food protection. Aug 1979. v. 42 (8). p. 662-663. charts. 14 ref. (NAL Call No.: 44.8 J824).

2383

Increased accumulation of the lipophilic cation tetraphenylphosphonium⁺ by cyclopiazonic acid-treated renal epithelial cells.

JTEHD6. Riley, R.T. Norred, W.P.; Dorner, J.W.; Cole, R.J. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. 1985. v. 15 (6). p. 779-788. Includes references. (NAL Call No.: DNAL RA565.A1J6).

2384

Influence of the growth of psychrophilic microorganisms on the flavor and selected chemical components of chicken meat / by Morris Glen Mast. -.

Mast, Morris Glen, 1940-. 1971. Thesis (Ph.D.)--Ohio State University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. vii, 116 leaves ; 21 cm. Bibliography: leaves 106-116. (NAL Call No.: DISS 72-4,562).

2385

Inspecting the mysteries of Chinatown's markets.

Russell, L. Washington, D.C. : U.S. Department of Agriculture. Abstract: A brief narrative describes the excursions of a USDA Food Safety and Inspection Service compliance officer through San Francisco's Chinatown to assess the safety, wholesomeness, and proper labeling of meat and poultry products in Chinatown's markets. The characteristics of this inspection operation are discussed. Specific guidelines for buying ethnic foods are included.(wz). Food news for consumers. Spring 1988. v. 5 (1). p. 6-7. ill. (NAL Call No.: DNAL aTX501.F66).

2386

Isolation of Yersinia enterocolitica (Food contaminant) from pig tonsils.

Hanna, M.O. Smith, G.C.; Hall, L.C.; Vanderzant, C.; Childers, A.B. Jr. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1980. v. 43 (1). p. 23-25. 23 ref. (NAL Call No.: 44.8 J824).

2387

Listeria microbe deadly, but USDA proposes six-week recall delay.

Washington, D.C. : Community Nutrition Institute. Abstract: A brief report discusses the high health risks to infants, pregnant women, and the elderly from meat and poultry products contaminated with the bacterium Listeria monocytogenes and notes the recent action by USDA that it would set a zero tolerance in cooked and ready-to-eat meat and poultry products for Listeria. Listeriosis outbreaks, the involvement of the Centers for Disease Control and state health agencies in including Listeria in their surveillance systems, and concerns of the public and the meat industry also are discussed. Nutrition week. Aug 20, 1987. v. 17 (33). p. 1-2. (NAL Call No.: DNAL TX341.C6).

2388

Malonaldehyde concentrations in food are affected by cooking conditions (Beef, chicken, cheese, fish, carcinogens).

Newburg, D.S. Concon, J.M. Chicago, Institute of Food Technologists. Journal of food science. Nov/Dec 1980. v. 45 (6). p. 1681-1687. ill. 15 ref. (NAL Call No.: 389.8 F7322).

2389

A Market basket of food hazards : critical gaps in government protection : a report / by Public Voice for Food and Health Policy.

Washington, D.C. Public Voice for Food and Health Policy 1983. Abstract: Food safety laws and regulations are reviewed. Changes in existing legislation to reduce or eliminate possible health hazards from the supply as it travels from farm to tables are recommended. Topics include; inspections of fish, pesticide residues on fresh produce, chemical residues in meat and poultry products, foodborne Salmonella, aflatoxin, food additives, food color, and lead in canned foods. (kbc). 106 p. ; 28 cm. (NAL Call No.: TX563.M37 F&N E-4203).

2390

Meat and poultry hotline: Q & A--on summertime food safety.

Parmley, M.A. Washington, D.C. : U.S. Department of Agriculture. Abstract: Questions and answers on summertime food safety focus on food poisoning and the hazards of outdoor picnics and barbecues involving meat and poultry products. In addition, tips are given for other aspects of outdoor eating and food service, including ways to keep food cold longer and how to keep hot foods safely for several hours. (lsp). Food news for consumers. Spring 1985. v. 2 (2). p. 11-13. ill. (NAL Call No.: DNAL aTX501.F66).

2391

Meat and poultry products: a consumer guide to content and labeling requirements.

Washington, D.C., The Department. Home and garden bulletin - United States Department of Agriculture. July 1981. July 1981. (236). 23 p. ill. (NAL Call No.: 1 AG84HG).

2392

Meat, Poultry, and Egg Products Inspection Amendments of 1983, exempt restaurant central kitchens from federal inspection requirements, and USDA's five-point program of inspection in livestock and poultry slaughter plantshearing before the Subcommittee on Livestock, Dairy, and Poultry of the Committee on Agriculture, House of Representatives, Ninety-eighth Congress, second session, on H.R. 2691 and H.R. 5223, May 17, 1984. --.

United States.~Congress.~House.~Committee on Agriculture.~Subcommittee on Livestock, Dairy, and Poultry. Washington, D.C. : U.S. G.P.O., 1984 i.e. 1985. Distributed to some depository libraries in microfiche.~ "Serial no. 97-76.". ii, 150 p. : 24 cm. (NAL Call No.: DNAL KF27.A366 1984a).

2393

Meats, poultry, and seafoods.

Jay, J.M. New York : Von Nostrand Reinhold, 1987. Food and beverage mycology / edited by Larry R. Beuchat. p. 155-173. ill. Includes references. (NAL Call No.: DNAL QR115.F59 1987).

2394

Metabolism and effects of organic compounds in animals.

VHTOD. Eisele, G.R. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Literature review. Oct 1985. v. 27 (5). p. 417-421. Includes 26 references. (NAL Call No.: DNAL SF601.A47).

2395

Method to rapidly enumerate Salmonella on chicken carcasses.

JFPRDR. Hawa, S.G. Morrison, G.J.; Fleet, G.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: A method for rapid enumeration of Salmonella on chicken carcasses was developed. Carcass rinses were centrifuged to sediment and concentrate Salmonella and other microbial cells. After washing and resuspending the pelleted cells to 1.0 ml, Salmonella was selectively isolated and differentiated from other species by plating onto newly developed dulcitol bile novobiocin agar. Rapid lysine decarboxylase and ONPG tests were developed for biochemical confirmation of presumptive Salmonella colonies. Fully confirmed Salmonella counts were obtained within 48 h. The new method gave Salmonella counts and detection rates that were significantly higher than those found by conventional enrichment, plating procedures. (author). Journal of food protection. Dec 1984. v. 47 (12). p. 932-936. charts. Includes 13 references. (NAL Call No.: DNAL 44.8 J824).

2396

Microbiological characteristics of vacuum-CO (carbon dioxide)-packaged broiler carcasses (Food safety, contamination).

Viseshiri, K.MAEBB. Chen, T.C. Mississippi State : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Oct 1982. Oct 1982. (910). 8 p. ill. Includes references. (NAL Call No.: S79.E3).

2397

Microbiological condition of broilers as influenced by vacuum and carbon dioxide in bulk shipping packs.

Bailey, J.S. AR-RRR. Reagan, J.O.; Carpenter, J.A.; Schuler, G.A. Chicago, Institute of Food Technologists. Extract: Effects of storage temperature, film permeability, carbon dioxide level and vacuum level on acceptability and shelf-life of fresh-processed poultry were determined. Significantly lower microbial counts and extended shelf-life were found when storage was at 2 degrees C instead of 5 degrees C, after 12 days storage when low permeable packaging film was used instead of high permeable film and after 15 days of storage when 65 percent CO (sub 2) was used instead of 20 percent CO (sub 2). Gra. Journal of food science. Jan/Feb 1979. v. 44 (1). p. 134-137. ill., charts. 25 ref.

2398

Microbiological quality of raw and cooked turkey roasts under conditions simulating school food service.

Ollinger-Snyder, P. Matthews, M.E.; Maxcy, R.B. Denver, Colo. : American School Food Service Association. Extract: Microbiological quality

of turkey roasts was evaluated at three critical points in processing: before cooking, after cooking, and after hot holding. Roasts were examined raw and then cooked to 77 degrees C in a convection oven at 105, 135, or 165 degrees C. The finished product was sliced and examined or held at 67 degrees C in a hot-holding cabinet operating at 67 to 82 degrees C. Evaluations were made after the internal temperature of slices reached 67 degrees C. Thereafter, slices were held for 60 or 120 minutes. Total plate counts and coliform counts were obtained from the roasts at each of the three critical control points in food product flow. Total plate counts for the product raw, cooked, or held hot were within generally acceptable limits, as judged by sensory evaluation, because approximately 50 million organisms per gram of food are required before sensory spoilage occurs. Coliforms, common indicator organisms of public health significance, were found in the raw product. However, no coliforms were found when roasts were cooked to an internal temperature of 77 degrees C. Any product subsequently held hot should be held for short periods of time at temperatures greater than or equal to 60 degrees C in accordance with federal recommendations and to maintain sensory quality of the product. The importance of these of critical control points in training food service workers in proper handling procedures cannot be overemphasized. (author). School foodservice research review. Spring 1987. v. 11 (1). p. 36-39. charts. Includes 9 references. (NAL Call No.: DNAL TX945.S344).

2399

Microbiology of restructured meat and poultry products.

Kotula, A.W. Berry, B.W.; Emswiler-Rose, B.S. New York : AVI Publishing Company. Advances in meat research. Literature review. 1987. v. 3. p. 161-220. Includes references. (NAL Call No.: DNAL TS1960.A33).

2400

Microflora recovered from foods on violet red bile agar with and without glucose and incubated at different temperatures (Fresh and frozen foods, meats).

Oblinger, J.L. Kennedy, J.E. Jr.; Langston, D.M. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1982. v. 45 (10). p. 948-952. 24 ref. (NAL Call No.: 44.8 J824).

2401

The National Residue Avoidance Program (Meat, milk, eggs, poultry and swine, USA).

Adams, J. St. Paul, Minn. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1983. 1983. p. 125-131. (NAL Call No.: 280.3409 L75A).

2402

New salmonella detection method provides better control at P&G.

Chicago, Ill. : Gorman Publishing Company. Abstract: A new food testing method, Hydrophobic Grid Membrane Filter, (HGMF) provides a number of advantages over the AOAC/BAM reference method for salmonella testing (e.g., lower cost, better control, less set-up time, increased sample throughput). A collaborative study was carried out to compare the 2 methods using 6 different products (chocolate, raw ground poultry meat, ground black pepper, cheese powder, egg powder, non-fat dry milk). The study found that the 2 methods provided the same results within 95% confidence limit of statistical significance for each of the 6 foods. A description of the protocol for each of the 6 foods. A description of the protocol for the HGMK method is given. (wz). Prepared foods. June 1985. v. 154 (6). p. 58. ill. (NAL Call No.: DNAL FNC HD9000.1.F64).

2403

Overcoming common causes of food poisoning.

New York, N.Y. : Tufts University Diet and Nutrition Letter. Abstract: Food poisoning, a common occurrence, can be avoided most of the time if certain precautions are taken. Since the majority of outbreaks occur in the home, it is the consumer who must be made aware of the nature and causes of the culprits. In addition to describing the microorganisms that are the offenders, how to properly handle food is reviewed. Mistakes in food preparation and how to prevent them are listed; newly emerging pathogens and raw seafood consumption are also discussed. (jd-b). Tufts University diet & nutrition letter. Feb 1987. v. 4 (12). p. 3-6. (NAL Call No.: DNAL TX341.T83).

2404

A perspective on food safety concerns.

DACDA. McBean, L.D. Rosemont : National Dairy Council. Abstract: This review attempts to educate consumers and food handlers on sanitation procedures, the proper handling of food, and personal hygiene. Foodborne microbial diseases that are caused by Salmonella, Clostridium, and Staphylococcus are discussed. It is indicated that the risk of food contamination from microbial and non-microbial sources may be minimized by consuming a nutritionally balanced diet. This diet should consist of a variety of foods in moderation that have been prepared and stored following established sanitation practices and under proper temperature. Meat, for example, is regulated by the Food Safety and Inspection Service, a USDA agency that inspects all meat and poultry slaughtered in the U.S. The Food and Drug Administration, on the other hand, regulates the safety, sanitation, and nutritional quality of all other foods in interstate commerce. (mjs). Dairy Council digest. Jan/Feb 1987. v. 58 (1). p. 1-6. Includes 69 references. (NAL Call No.: DNAL FNC

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389.8 D14).

2405

Potential application of microbial antagonism to extended storage stability of a flesh type food.

Raccach, M. Baker, R.C.; Regenstein, J.M.; Mulnix, E.J. Chicago, Institute of Food Technologists. Abstract: The shelf life of both refrigerated ground and mechanically deboned poultry meat was extended by 2 days using the resting cells of the starter cultures *Pediococcus cerevisiae* and *Lactobacillus plantarum*. The microbial population of the treated sample was 10 percent of that of the control at the onset of off-odor in the control. The lactic acid bacteria (LAB) did not decrease the pH of the meat. Fluorescent psychrotrophic colonies were not detected in the treated samples, but were present in the control. Journal of food science. Jan/Feb 1979. v. 44 (1). p. 43-46. ill. 22 ref.

2406

Poultry inspection the basis for a risk-assessment approach /prepared by the Committee on Public Health Risk Assessment of Poultry Inspection Programs, Food and Nutrition Board, Commission on Life Sciences, National Research Council.

National Research Council (U.S.).~Committee on Public Health Risk Assessment of Poultry Inspection Programs. Washington, D.C. : National Academy Press, 1987. Errata slip inserted. ix, 167 p. : ill. ; 28 cm. Includes bibliographies. (NAL Call No.: DNAL TS1975.N37).

2407

Poultry producer's drug dilemma (FDA, USDA, food quality control, presence of animal health drugs in food).

Good, R.E. Mount Morris, Ill., Watt Publishing Co. Broiler industry. Jan 1981. v. 44 (1). p. 112, 116, 118. ill. (NAL Call No.: 47.8 N45).

2408

Present and future food hygiene concerns.

Kampelmacher, E.H. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 100-102. (NAL Call No.: DNAL SF601.J62).

2409

Presumptive identification of stock cultures and food isolates as *Salmonella*, *Shigella*, or *Yersinia* with the enteric pathogen screen.

JFDAZ. Bailey, J.S. Cox, N.A. Chicago, Ill. : The Institute. The enteric pathogen screen (EPS) card designed for use with the Vitek Auto Microbic System (AMS) was evaluated with stock cultures and fresh isolates from ground beef, pork sausage, chicken and turkey to determine its effectiveness as a screen for *Salmonella*, *Yersinia enterocolitica* and *Shigella*. Each isolate was concurrently tested with the Micro-ID test strip and the AMS Gram negative identification card to confirm its identification. The EPS accurately classified 115 of 125 (92%) of the stock cultures and 207 of 212 (97%) of the fresh food isolates. The EPS gives a rapid presumptive screen at a relatively low cost and as such is a viable alternative to conventional procedures. Journal of food science : an official publication of the Institute of Food Technologists. Mar/Apr v. 51 (2). p. 526-527. Includes references. (NAL Call No.: DNAL 389.8 F7322).

2410

The profession's role in food protection from farm to table.

Rigdon, C.R. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 96-97. (NAL Call No.: DNAL SF601.J62).

2411

Quality control in small plants--a guide for meat and poultry processors.

Washington, D.C., The Service. Agriculture handbook - United States Department of Agriculture, Food Safety and Inspection Service. June 1981. June 1981. (586). 18 p. ill. (NAL Call No.: 1 AG84AH).

2412

Quantitative thin layer chromatographic multi-sulfonamide screening procedure (in cattle, swine, turkey and duck tissues).

Thomas, M.H. JANCA. Soroka, K.E.; Thomas, S.H. Arlington : The Association. Journal of the Association of Official Analytical Chemists. July 1983. v. 66 (4). p. 881-883. Includes references. (NAL Call No.: 381 AS7).

2413

Rapid hydrophobic grid membrane filter-enzyme-labeled antibody procedure for identification and enumeration of Escherichia coli 0157 in foods.

APMBA. Todd, E.C.D. Szabo, R.A.; Peterkin, P.; Sharpe, A.N.; Parrington, L.; Bundle, D.; Gidney, M.A.U.; Perry, M.B. Washington, D.C. : American Society for Microbiology. An O-antigen-specific monoclonal antibody, labeled by horseradish peroxidase-protein A, was used in a hydrophobic grid membrane filterenzyme-labeled antibody method for rapid detection of Escherichia coli 0157 in foods. The method yielded presumptive identification within 24 h and recovered, on average, 95% of E. coli 0157:H7 artificially inoculated into comminuted beef, veal, pork, chicken giblets, and chicken carcass washings. In food samples from two outbreaks involving E. coli 0157:H7, the organism was isolated at levels of up to $10(3)/g$. The lower limit of sensitivity was 10 E. coli 0157 per g of meat. Specific typing for E. coli 0157:H7 can be achieved through staining with labeled H7 antiserum or tube agglutination. Applied and environmental microbiology. Oct 1988. v. 54 (10). p. 2536-2540. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

2414

Researching the salmonella problem.

Parmley, M.A. Washington, D.C. : U.S. Department of Agriculture. Abstract: A brief synopsis outlines and summarizes some of USDA's more promising projects aimed at reducing food poisoning due to salmonella. These include producing chicks that have an enhanced reduction in intestinal salmonella growth, and processing plant washing improvements to reduce salmonella contamination in chicken skin and red meat. The planning for a 2-year project to establish a model poultry plant in Puerto Rico for "safe" chicken meat also is discussed. Food news for consumers. Summer 1988. v. 5 (2). p. 8-9. (NAL Call No.: DNAL aTX501.F66).

2415

Residues and other FDA concerns.

Crawford, L.M. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 95-96. (NAL Call No.: DNAL SF601.J62).

2416

Review of evidence for zoonotic listeriosis. JFPRDR. Hird, D.W. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Literature review. May 1987. v. 50 (5). p. 429-433. Includes references. (NAL Call No.: DNAL 44.8 J824).

2417

Review of the Egg Products Inspection Acthearing before the Subcommittee on Livestock, Dairy, and Poultry of the Committee on Agriculture, House of Representatives, Ninety-ninth Congress, first session, November 21, 1985. --.

United States.~Congress.~House.~Committee on Agriculture.~Subcommittee on Livestock, Dairy, and Poultry. Washington, D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1986. Distributed to some depository libraries in microfiche.~Shipping list no.: 85-647-P.~ "Serial no. 99-17.". iv, 342 p. : ill., forms ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF27.A366 1985b).

2418

The safe food book : your kitchen guide / (writer, Mary Ann Parmley). --.

Parmley, Mary Ann. (Washington, D.C.) U.S. Dept. of Agriculture, Food Safety and Inspection Service 1984. Abstract: A guide to food safety explains safe methods of food preservation, storage, and preparation. A brief historical perspective is given. an explanation of food spoilage is provided. The 4 major food poisons, which are staphylococcus aureus (Staph), salmonella, Perfringens, and botulism, with particular emphasis on contaminated canned foods are all described. Suggestions are given on ways to keep kitchens and food safe. Advice on heating, refrigeration, and freezing is provided. Methods of ensuring the safety of microwave cooked foods are listed. Foods that require special care, such as ground meats and poultry are identified. Care of canned goods, how to protect foods when the freezer or refrigerator fails, and reporting food related illnesses are discussed. An index is included along with information on where to get more information. (kbc). Cover title ~"July 1984. ~Includes index. 32 p. : col. ill. ; 22 cm. --. Bibliography: p. 31. (NAL Call No.: TX601.P37 F&N C-2703).

2419

Salmonella: a closer look.

Parmley, M.A. Washington, D.C. : U.S. Department of Agriculture. Abstract: Human salmonella infections have been steadily growing in that reported cases (via National Centers for Disease Control) have doubled during the last decade. Farm animals in close

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quarters; more people eating out; and more people with suppressed immune systems are three reasons for increased cases of salmonella. Salmonella is ubiquitous and, therefore, virtually impossible to eliminate from fresh meats, poultry or raw milk. How salmonella occurs; its symptoms; tips on prevention; USDA's activities to solve the salmonella problem are discussed.(mjs). Food news for consumers. Spring 1986. v. 3 (1). p. 10-12. (NAL Call No.: DNAL aTX501.F66).

2420

Salmonella scare.

Bain, L. New York, N.Y. : Restaurant Business Magazine. Abstract: A brief historical report notes the growth in foodborne illnesses to 80 million cases/year and highlights the increased prevalence in salmonella poisoning in New York State by 50% since 1980, with a very strong connection made with salmonella poisoning from poultry. The report also notes that at least 30% of all raw poultry is infected with salmonella at any given time. The human hazards associated with salmonella poisoning, the possible causes of such contamination, and actions to prevent it are addressed.(wz). Restaurant business. May 20, 1987. v. 86 (8). p. 102. (NAL Call No.: DNAL 389.2538 F82).

2421

Sanitation handbook for meat and poultry inspectors / (prepared by the United States Department of Agriculture's Food Safety and Inspection Service). -.

United States ~ Food Safety and Inspection Service. Washington, D.C. U.S. Dept. of Agriculture, Food Safety and Inspection Service, Meat and Poultry Inspection Technical Services, Facilities Equipment and Sanitation Division 1982. Cover title ~"July 1982.". 1 v. (various pagings) : ill. ; 28 cm. (NAL Call No.: aTS1975.U536).

2422

Setting safe limits on pesticide residues.

FDACB. Farley, D. Rockville, Md. : Food and Drug Administration, Department of Health & Human Services. Abstract: The Environmental Protection Agency sets the tolerances for pesticide residues in foods. The Food and Drug Administration (FDA) enforces these tolerances except for meat and poultry for which the USDA is responsible. This article describes the sampling techniques of the FDA used in monitoring the levels of pesticides in food. F.D.A. consumer. Oct 1988. v. 22 (8). p. 8-11. ill. (NAL Call No.: DNAL FNC HD9000.9.U5A1).

2423

Should we worry about animal growth promoters.

Horowitz, Crystal. Rozen, Paul.; Gilat, Tuvia. Philadelphia, Pa. : Franklin Institute Press. Extract: Estrogens and compounds with estrogenic activity have been used for many years as animal growth promoters and to synchronize estrus in cows. The resorcylic acid lactones (RALs), which include zearalenone, are being used increasingly for these purposes. The estrogenic mycotoxins, now produced commercially, have teratogenic, mutagenic, and carcinogenic properties. There is some evidence that their residues could remain in certain organs at the time the animal products come to market, and this may be of medical significance. (author). Nutrition and cancer. 1983. v. 5 (1). p. 51-54. Includes 18 references. (NAL Call No.: RC262.C5N8).

2424

Simplified direct plating method for enhanced recovery of Escherichia coli in food.

UFDAZ. Damare, J.M. Campbell, D.F.; Johnston, R.W. Chicago, Ill. : Institute of Food Technologists. Abstract: A simplified selective plating method is described and evaluated, based on a plating medium for E. coli that is designed to enhance glucuronidase detection and improve the recovery of stressed cells. The method provided enhanced recovery of heat- and freeze-stressed cells and gave E. coli counts from meat and poultry samples that were equal or greater than the standard method. The new medium combined tergitol-7 with a fluorogen, with E. coli colonies detected by fluorescence under exposure to long-wave ultraviolet light.(wz). Journal of food science. Nov/Dec 1985. v. 50 (6). p. 1736-1737, 1746. ill. Includes 22 references. (NAL Call No.: DNAL 389.8 F7322).

2425

Sporulation of Clostridium perfringens in meats supplemented with soy materials.

Craven, S.W. AR-RRC. Mercuri, A.J. Chicago, Institute of Food Technologists. Abstract: Clostridium perfringens was inoculated into cooked meat samples and meat supplemented with 30% hydrated isolated soy protein (ISP), soy protein concentrate (SPC), or textured soy protein (TSP), and incubated anaerobically at 37 C. for 24 hr. Of six C. perfringens strains, six sporulated in chicken thigh meat, two in beef, and none in pork sausage. The beef or chicken supplemented with SPC or TSP showed less sporulation than the controls, while beef supplemented with ISP showed higher s. Journal of food science. May/June 1979. v. 44 (3). p. 755-757, 762. charts. 26 ref.

2426

Statement by C.W. McMillan, Assistant Secretary of Agriculture, U.S. Department of Agriculture before the Senate Committee on Agriculture, Nutrition, and Forestry, Subcommittee on Agricultural Research and General Legislation, August 11, 1982 (Proposed changes in the Federal Meat Inspection Act, Poultry Products Inspection Act and Egg Products Inspection Act).

McMillan, C.W. Washington, D.C., The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Aug 6/13, 1982. Aug 6/13, 1982. p. 5-15. (NAL Call No.: aS21.A8U51).

2427

Strategies for the control of human trichinosis transmitted by pork.

FOTEA. Murrell, K.D. Chicago, Ill. : Institute of Food Technologists. Abstract: The characteristics of trichinosis, a serious disease of swine and humans (transmitted by infected pork ingestion) caused by the parasitic nematode worm, *Trichinella spiralis*, are discussed. Strategies for controlling trichinosis and methods for surveillance and eradication of such parasitic infections are examined. Features of a US national or state surveillance and eradication strategy are identified. Prospects for the development of a vaccine for swine trichinosis are discussed. (wz). Food technology. March 1985. v. 39 (3). p. 65-68, 110-111. ill., charts. Includes 24 references. (NAL Call No.: DNAL 389.8 F7398).

2428

Studies on mechanisms of diarrhea induced by fusarenon-X, a trichothecene mycotoxin from *Fusarium* species (red mold toxicosis in man and farm animals).

Matsuoka, Y. Kubota, K. New York, Academic Press. Toxicology and applied pharmacology. Mar 15, 1981. v. 57 (3). p. 293-301. ill. 13 ref. (NAL Call No.: 391.8 T662).

2429

A survey to determine the use of the "Task analysis and Curriculum Planning Guide" by colleges and schools of veterinary medicine. Besch, E.D. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 102-104. Includes 8 references. (NAL Call No.: DNAL SF601.J62).

2430

Survival of *Campylobacter jejuni* in selected gaseous environments.

JFDAZ. Stern, N.J. Greenberg, M.D.; Kinsman, D.M. Chicago, Ill. : The Institute. Vacuum-packaged and oxygen-permeable, polyvinyl chloride film wrapped broiler chickens were compared with one another to determine influence on the survival of *Campylobacter jejuni*. No significant (P less than 0.01) difference in the survival of *C. jejuni* was observed, irrespective of the packaging system assessed by either surface rinse or drip sampling. Significantly (P less than 0.01) greater numbers of the organism were recovered by surface rinse sampling in both packaging systems when compared with the numbers obtained from drip sampling. Recovery of indigenous *Campylobacter* from red meat carcass samples was greater in the vacuum packaged samples (19/63) than in the oxygen permeable wrapped samples (7/63) after the samples were held at refrigeration temperatures for 1 wk. Significantly (P less than 0.01) greater survival of *C. jejuni* in ground beef was demonstrated in a 100% nitrogen atmosphere when compared with a vacuum, a 80% carbon dioxide and 20% nitrogen atmosphere or a 5% oxygen, 10% carbon dioxide and 85% nitrogen atmosphere. These results indicate that the organism survives at variable rates in different atmospheres, but these differences were relatively small and unlikely to impact on the public health. Journal of food science : an official publication of the Institute of Food Technologists. May/June 1986. v. 51 (3). p. 652-654. Includes references. (NAL Call No.: DNAL 389.8 F7322).

2431

Tissue residues due to ronidazole: Bioavailability of residues in swine muscle on ingestion by the rat (Metabolism of xenobiotics).

Wolf, F.J. Alvaro, R.; Steffens, J.U.; Wolf, D.E.; Koniuszy, F.R.; Green, M.L.; Jacob, T.A. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1984. v. 32 (4). p. 711-714. Includes references. (NAL Call No.: 381 J8223).

2432

Toxicity and teratogenicity of food additive chemicals in the developing chicken embryo.

Verrett, M.J. Scott, W.F.; Reynaldo, E.F.; Alterman, E.K.; Thomas, C.A. New York, Academic Press. Toxicology and applied pharmacology. Nov 1980. v. 56 (2). p. 265-273. 8 ref. (NAL Call No.: 391.8 T662).

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2433

Toxicity of the Alternaria metabolites alternariol, alternariol methyl ether, altenuene, and tenuazonic acid in the chicken embryo assay (Molds).

Griffin, G.F.APMBA. Chu, F.S. Washington : American Society for Microbiology. Applied and environmental microbiology. Dec 1983. v. 46 (6). p. 1420-1422. ill. Includes references. (NAL Call No.: 448.3 AP5).

2434

Types of Clostridium perfringens isolated from selected foods.

Fruin, John T. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Extract: To determine the proportion of type A Clostridium perfringens occurring among C. perfringens isolates obtained from foods, strains were typed by the mouse serum neutralization method. Of 339 isolates from ground beef, ground pork, ground turkey, live crab, cured sausage, and live clams, 320 (94 percent) were type A. The remaining 19 isolates produced insufficient exotoxin for typing. The predominance of type A strains from the foods surveyed indicates that definitive typing of strains isolated from these foods, when suspected of causing foodborne disease, is not warranted. Journal of food protection. Oct 1978. v. 41 (10). p. 768-769. 4 ref. (NAL Call No.: 44.8 J824).

2435

U.S. food safety defense weakening; need bolster.

Washington : Community Nutrition Institute. Abstract: Food borne illnesses are a major health problem in the U.S. today. Reporting of the etiology of food borne illnesses is done in only 40 percent of the reported cases, according to the Center for Disease Control (CDC) that monitors the epidemiology of human diseases in America. CDC estimates that only one in 50 of an approximate 1.3 million cases of Salmonella poisoning that occur each year is reported. Food borne illnesses have been reported only since 1966 as a health statistic. The major change in food safety programs since that time has been the identification of the pathogenic bacteria (in addition to Salmonella) that cause food borne illness and a better understanding of the transmission and prevention of disease. The cost of food borne illness in the U.S. is estimated to be about \$5 billion a year. U.S. meat and poultry inspection and milk pasteurization prevent many potential infections, but the increased resistance of certain microorganisms has led to an overall rise in food borne illness incidence. The absence of an adequate food safety defense system is the major cause of the increased health threat from microbial contamination, according to the Second National Conference for Food Protection. Steps suggested to change this include 1) expanding consumer education programs and training for food

handlers, 2) identifying the cause of disease in the 60 percent of cases in which the etiologic agent is not determined, 3) carrying out hazard analyses in food operations rather than routine inspections to determine sanitary code violations, 4) continuing research on pathogens and how food preparation and handling contribute to their proliferation, and 5) using relevant data in planning food safety programs and legislative policies. A table describes major microorganisms responsible for food borne illnesses (e.g. transmission, symptoms, illness characteristics and preventive measures. (aj). Nutrition week. May 31, 1984. v. 14 (22). p. 4-5. charts. Includes 1 references. (NAL Call No.: DNAL FNC TX341.C6 F&N).

2436

U.S. inspected meat and poultry packing plants : a guide to construction and layout. -. (Washington, D.C.) U.S. Dept. of Agriculture, Food Safety and Quality Service 1984. Cover title. 83 p. : ill., plans ; 28 cm. --. (NAL Call No.: 1 Ag84Ah no.570 1984).

2437

Ultrastructural changes in postmortem porcine muscle / by Thayne R. Dutson. -. Dutson, Thayne R., 1942-. 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972 ~Thesis (Ph.D.)--Michigan State University, 1971. xi, 119 leaves ; 21 cm. Bibliography: leaves 106-113. (NAL Call No.: DISS 71-31,190).

2438

USDA adopts stringent controls for rejected meat and poultry imports (Regulations, food safety).

Washington : The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Apr 8/15, 1983. Apr 8/15, 1983. p. 20-22. (NAL Call No.: aS21.A8U51).

2439

USDA mounts new drive easing food safety rules.

Washington, D.C. : Community Nutrition Institute. Abstract: A news report discusses the planned strategy of the USDA Food Safety and Inspection Service for deregulating poultry inspection. Under this plan poultry would be defined as marketable or unmarketable instead of safe or unsafe, under a "token" federal presence. A USDA field pilot study to prove the effectiveness of this strategy is discussed. The view is expressed that there are concerns about the reliability of the field, and that the US Congress should address the question of a food safety protocol for reducing poultry food poisoning rates.(wz). Nutrition week. Oct 29, 1987. v. 17 (43). p. 4-5. (NAL Call No.: DNAL TX341.C6).

2440

Watch those fly parts.

Washington : Center for Science in the Public Interest. Abstract: A brief article summarizes, tabulates, and discusses the FDA food defect "action level" for the presence of insects mites, rot, mold, decomposition, and insect and rodent filth in 13 different foods. The food defect action level is defined as the maximum allowable levels of impurities in a food product. It is pointed out that while USDA who is responsible for meat and poultry inspection does not have a defect action list as such, it uses various standards for regulating filth levels. (wz). Nutrition action. Nov 1984 v. 11 (9). p. 13. charts. (NAL Call No.: DNAL FNC TX341.N9 F&N).

2441

Zearalenone and zeranol: potential residue problems in livestock.

VHTOD. Sundlof, S.F. Strickland, C. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Literature review. June 1986. v. 28 (3). p. 242-250. Includes 97 references. (NAL Call No.: DNAL SF601.A47).

2442

Zeranol and 17beta-estradiol: a critical review of the toxicological properties when used as anabolic agents.

Truhaut, R. Shubik, P.; Tuchmann-Duplessis, H. Orlando, Fla. : Academic Press. Regulatory toxicology and pharmacology. Sept 1985. v.5 (3). p. 276-283. Includes references. (NAL Call No.: DNAL RA1190.R42).

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2443

Absorption and distribution patterns of aflatoxicol and aflatoxins B1 and M1 in blood and milk of cows given aflatoxin B1.

Trucksess, M.W.AJVRA. Richard, J.L.; Stoloff, L.; McDonald, J.S.; Brumley, W.C. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Sept 1983. v. 44 (9). p. 1753-1756. ill. Includes references. (NAL Call No.: 41.8 AM3A).

2444

Aerobic mesophilic and psychrotrophic sporeforming bacteria in buffalo milk.

Shehata, A.E.JDSCA. Magdoub, M.N.I.; Sultan, N.E.; El-Samragy, Y.A. Champaign : American Dairy Science Association. Journal of dairy science. June 1983. v. 66 (6). p. 1228-1231. ill. Includes references. (NAL Call No.: 44.8 J822).

2445

Aflatoxin residues in milk of dairy cows after ingestion of naturally contaminated grain.

JFPRDR. Frobish, R.A. Bradley, B.D.; Wagner, D.D.; Long-Bradley, P.E.; Hairston, H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1986. v. 49 (10). p. 781-785. Includes 14 references. (NAL Call No.: DNAL 44.8 J824).

2446

Antibiotic residues in milk after intrauterine infusion (Cows).

Haaland, M.A. Manspeaker, J.E.; Moreland, T.W. Edwardsville : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Mar 1984. v. 79 (3). p. 382-386. Includes references. (NAL Call No.: 41.8 M69).

2447

Arachidonic acid metabolites in milk of cows during acute coliform mastitis.

AJVRAH. Anderson, K.L. Kindahl, H.; Petroni, A.; Smith, A.R.; Gustafsson, B.K. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. July 1985. v. 46 (7). p. 1573-1577. ill. Includes 23 references. (NAL Call No.: DNAL 41.8 AM3A).

2448

Arsenic in tissues of sheep and milk of dairy cows fed arsanilic acid and 3-nitro-4-hydroxyphenylarsonic acid.

Calvert, C.C. AR-BARC. Smith, L.W. Champaign, Ill.; American Society of Animal Science. Journal of animal science. Aug 1980. v. 51 (2).

p. 414-421. ill. 18 ref. (NAL Call No.: 49 J82).

2449

Bacillus stearothermophilus disk assay detection of penicillin in milk of dairy cows after postestruai intrauterine infusion (Antibiotic residues).

McClary, D.G.AJVRAH. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Mar 1984. v. 45 (3). p. 416-419. Includes references. (NAL Call No.: 41.8 AM3A).

2450

Bacterial and somatic cell counts in bulk tank milk from nine well managed herds.

JFPRDR. Hogan, J.S. Hoblet, K.H.; Smith, K.L.; Todhunter, D.A.; Schoenberger, P.S.; Hueston, W.D.; Pritchard, D.E.; Bowman, G.L.; Heider, L.E.; Brockett, B.L. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Abstract: Factors associated with bulk tank milk bacterial and somatic cell counts were investigated for one year on nine well managed dairies. Geometric mean total bacterial count among dairies was 4.4×10^3 colony cfu/ml. Geometric mean bulk tank milk somatic cell counts among herds was 265×10^3 /ml. Bacterial counts in bulk tank milk were correlated with rates of coliform and environmental streptococcal clinical mastitis cases. Rates of total clinical cases were also correlated with bulk tank milk somatic cell counts. Correlations were measured among bulk tank milk bacterial counts and gram-negative bacterial, coliform, Klebsiella species, and streptococcal counts in materials used to bed lactating cows. Total bacterial and staphylococcal bulk tank milk counts increased when synthetic rubber liners were used greater than 800 quarter milkings. Correlations measured indicated that monitoring bulk tank milk may be an effective means of detecting management changes in herds with low bacterial and milk somatic cell counts. Journal of food protection. Dec 1988. v. 51 (12). p. 930-934. Includes 10 references. (NAL Call No.: DNAL 44.8 J824).

2451

Coliform mastitis--a challenge for dairymen and researchers (Dairy cows, bacteria, milk sanitation).

Harmon, R.J. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Jan 1984. v. 4 (1). p. 4-6. (NAL Call No.: SF221.D342).

2452

Comparison of gas chromatographic/mass spectrometric and liquid chromatographic/mass spectrometric methods for confirmation of coumaphos and its oxygen analog in eggs and milk (Insecticides).

White, K.D. JANCA. Min, Z.; Brumley, W.C.; Krause, R.T.; Sphon, J.A. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Nov 1983. v. 66 (6). p. 1358-1364. ill. Includes references. (NAL Call No.: 381 AS7).

2453

Controlling contamination of milk and reducing udder infection using practical steps in dairy hygiene.

BOVPB. Bushnell, R.B. Stillwater : American Association of Bovine Practitioners. The Bovine practitioner. Nov 1984. (19). p. 134-138. (NAL Call No.: DNAL SF779.5.A1B6).

2454

Depletion of Brilliant Blue F.C.F., penicillin G and dihydrostreptomycin in milk from treated cows with experimentally induced mastitis (Residues).

Vilim, A. Larocque, L.; Macintosh, A. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1980. v. 43 (5). p. 356-359, 369. ill. 8 ref. (NAL Call No.: 44.8 J824).

2455

Detection of penicillin G and its benzylpenicilloyl (BPO)--derivatives in cow milk and serum by means of an ELISA.

JFPRDR. Rohner, P. Schallibaum, M.; Nicolet, J. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Includes statistical data. Jan 1985. v. 48 (1). p. 59-62. Includes 21 references. (NAL Call No.: DNAL 44.8 J824).

2456

Determination of coumaphos and its oxygen analog in eggs and milk by using a multiresidue method with liquid chromatographic quantitation and capillary gas chromatographic/mass spectrometric confirmation (Insecticides).

Krause, R.T. JANCA. Min, Z.; Shotkin, S.H. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Nov 1983. v. 66 (6). p. 1353-1357. Includes references. (NAL Call No.: 381 AS7).

2457

Determination of depletion and statistical distribution of morantel-related residues in bovine milk following administration of morantel tartrate to dairy cows.

JANCA2. Lynch, M.J. Mosher, F.R.; Dimmock, M.E.; Brunner, L.A.; Babcock, W.E.; McManus, R.F.; Wheelhouse, R.K. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. Nov/Dec 1986. v. 69 (6). p. 935-938. Includes references. (NAL Call No.: DNAL 381 AS7).

2458

Dexamethasone concentrations in bovine blood plasma and milk after intravenous injection (Lactating dairy cows).

Tainturier, D. Alvinerie, M.; Brandon, R.A.; Toutain, P.L. Champaign, American Dairy Science Association. Journal of dairy science. Oct 1982. v. 65 (10). p. 1921-1924. 9 ref. (NAL Call No.: 44.8 J822).

2459

Drug residues in milk after intrauterine injection of oxytetracycline, lincomycin-spectinomycin, and povidone-iodine in cows with metritis.

AJVRH. Kaneene, J.B. Coe, P.H.; Smith, J.H.; Rapnicki, P.; Smith, C.L.; Gerloff, B.; Morrow, D.A. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1986. v. 47 (6). p. 1363-1365. Includes 9 references. (NAL Call No.: DNAL 41.8 AM3A).

2460

Drug withdrawal times for dairy cows.

Plummer, K. McKean, J.; Kilmer, L.; Stevemer, E.; Owings, W. Ames, Iowa : The Service, 1985. Illinois-Iowa dairy handbook / University of Illinois at Urbana-Champaign and Iowa State University at Ames, Cooperative Extension Service. Residue Avoidance Program (RAP-D3), October, 1984. 3 p. (NAL Call No.: DNAL SF239.I45 1985).

2461

Dye marked antibiotics in dry cow mastitis therapy.

JDSCAE. Gilmore, T.M. Ellefson, R.A.; Parsons, J.G. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Apr 1986. v. 69 (4). p. 1128-1134. Includes 17 references. (NAL Call No.: DNAL 44.8 J822).

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2462

Effect of incubation temperature and heat treatments of milk from cow and buffalo on acid and flavor production by *Streptococcus thermophilus* and *Lactobacillus bulgaricus*.

Singh, J. Khanna, A.; Chander, H. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1980. v. 43 (5). p. 399-400. 13 ref. (NAL Call No.: 44.8 J824).

2463

Effect of mastitis on proteolytic activity in bovine milk.

JDSCAE. Saeman, A.I. Verdi, R.U.; Galton, D.M.; Barbano, D.M. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Feb 1988. v. 71 (2). p. 505-512. Includes references. (NAL Call No.: DNAL 44.8 J822).

2464

Effects of different concentrations of iodophor premilking disinfectant teat dips on iodine residue of milk in dairy herds.

Galton, D.M. Petersson, L.G.; Erb, H.N. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. Literature review. 1985. (24th). p. 30-35. Includes 23 references. (NAL Call No.: DNAL SF967.M3N32).

2465

Effects of long-term consumption of sewage solids on blood, milk and tissue elemental composition of breeding ewes (Milk).

Sanson, D.W. Hallford, D.M.; Smith, G.S. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Aug 1984. v. 59 (2). p. 416-424. Includes references. (NAL Call No.: 49 J82).

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BOVPB. Galton, D.M. Stillwater : American Association of Bovine Practitioners. The Bovine practitioner. Literature review. Nov 1984. (19). p. 139-143. Includes 26 references. (NAL Call No.: DNAL SF779.5.A1B6).

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Galton, D.M. Petersson, L.G.; Merrill, W.G. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. Literature review. 1984. (23rd). p. 19-30. Includes 27

references. (NAL Call No.: DNAL SF967.M3N32).

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Galton, D.M. Stillwater, Okla. : The Association. Proceedings ... annual convention - American Association of Bovine Practitioners. Literature review. 1984 (pub.1985). (17th). p. 108-114. Includes references. (NAL Call No.: DNAL SF961.A5).

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Effects of premilking udder preparation on bacterial population, sediment, and iodine residue milk.

JDSCAE. Galton, D.M. Petersson, L.G.; Merrill, W.G.; Bandler, D.K.; Shuster, D.E. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Nov 1984. v. 67 (11). p. 2580-2589. Includes 35 references. (NAL Call No.: DNAL 44.8 J822).

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JDSCAE. Galton, D.M. Petersson, L.G.; Merrill, W.G. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Jan 1986. v. 69 (1). p. 260-266. Includes 23 references. (NAL Call No.: DNAL 44.8 J822).

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Examination of poultry giblets, raw milk and meat for *Campylobacter fetus* subsp. *jejuni*.

Christopher, F.M. Smith, G.C.; Vanderzant, C. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1982. v. 45 (3). p. 260-262. Includes 15 ref. (NAL Call No.: 44.8 J824).

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Excretion of deoxynivalenol and its metabolite, DOM-1, in milk, urine, and feces of lactating dairy cows.

BOVPB. Cote, L.M. Dahlem, A.M.; Yoshizawa, T.; Swanson, S.P.; Buck, W.B. Stillwater, Okla. : American Association of Bovine Practitioners. The Bovine practitioner. Nov 1987. (22). p. 64-66. Includes references. (NAL Call No.: DNAL SF779.5.A1B6).

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Excretion rates of antibiotics in milk of sheep and their effect on yogurt production.

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CAGRA. Collar, C. Bath, D.L. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. May/June 1988. v. 42 (3). p. 10-12. ill. (NAL Call No.: DNAL 100 C12CAG).

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Bushway, R.J. McGann, D.F.; Bushway, A.A. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. May/June 1984. v. 32 (3). p. 548-551. ill. Includes references. (NAL Call No.: 381 J8223).

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Heat resistance of Escherichia coli in cow and buffalo milk.

Singh, R.S. Ranganathan, B. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1980. v. 43 (5). p. 376-380. ill. 17 ref. (NAL Call No.: 44.8 J824).

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JFPRDR. Hinckley, L.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1985. v. 48 (9). p. 751-753. Includes 5 references. (NAL Call No.: DNAL 44.8 J824).

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Bermejo-Barrera, A. Barrera-Ramallo, Bermejo-Martinez, F. New York, Academic. Microchemical journal. Sept 1980. v. 25 (3). p. 348-352. ill. 4 ref. (NAL Call No.: 381 M58).

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Inhibition of growth of spoilage microorganisms by Streptococcus thermophilus and Lactobacillus acidophilus in cow, buffalo and goat milk.

Singh, J. JFPRD. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. June 1983. v. 46 (6). p. 497-498. Includes references. (NAL Call No.: 44.8 J824).

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Iodine in field milk samples and effects on mastitis organisms (Lactating cows).

Rueggsegger, G.J. JDSCA. Kuehn, P.; Schultz, L.H. Champaign : American Dairy Science Association. Journal of dairy science. Sept 1983. v. 66 (9). p. 1976-1979. Includes references. (NAL Call No.: 44.8 J822).

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A lesson on listeriosis.

DHMG. Vasavada, P.C. Minnetonka, Minn. : Miller Publishing Co. Dairy herd management. Oct 1986. v. 23 (10). p. 40-42. ill. (NAL Call No.: DNAL SF191.D3).

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Lipoprotein lipase activity of milk from cows with prolonged subclinical mastitis.

JDSCAE. Azzara, C.D. Dimick, P.S. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Dec 1985. v. 68 (12). p. 3171-3175. Includes 29 references. (NAL Call No.: DNAL 44.8 J822).

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JAVMA. Blenden, D.C. Kampelmacher, E.H.; Torres-Anjel, M.J. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Dec 15, 1987. v. 191 (12). p. 1546-1551. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Loss of viability by Listeria monocytogenes in commercial calf rennet extract.

JFPRDR. El-Gazzar, F.E. Marth, E.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1988. v. 51 (1). p. 16-18. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Low incidence of aeromonas sp. in livestock feces.

JFPRDR. Stern, N.J. Drazek, E.S.; Joseph, S.W. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1987. v. 50 (1). p. 66-69. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Mastitis diagnosed by computer (Bacterial diseases of dairy cows, milk monitoring).

Puckett, H.B. AGREA. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Apr 1983. v. 31 (10). p. 12. (NAL Call No.: 1.98 AG84).

2487

Measurement of ampicillin in milk after intrauterine infusion of dairy cows (Antibiotics).

Caudle, A.B. Frank, J.F. Edwardsville : Veterinary Medicine Publishing Co. VM/SAC, veterinary medicine & small animal clinician. Feb 1983. v. 78 (2). p. 239, 242. Includes references. (NAL Call No.: 41.8 M69).

2488

Metabolic fate and elimination in milk, urine and bile of deoxynivalenol following administration to lactating sheep.

JPFCD2. Prelusky, D.B. Veira, D.M.; Trenholm, H.L.; Foster, B.C. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1987. v. 22 (2). p. 125-148. Includes references. (NAL Call No.: DNAL TD172.J61).

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Metabolic fate of the herbicide dicamba in a lactating cow (Residues in meat and milk).

Oehler, D.D. AR-SO. Ivie, G.W. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1980. v. 28 (4). p. 685-689. 11 ref. (NAL Call No.: 381 J8223).

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Milk the fight for purity /James Cross Giblyn.

Giblyn, James. New York : Crowell, c1986. Abstract: Milk is the most widely consumed food in the United States today. The author reviews the history of the fight for pure milk. Tracing this history reveals continuing crusades for consumer protection concerning milk. The

history of drinking cow's milk; providing milk to the cities' populations; swill-milk dairies (in which dairy cows drink swill- "run-off" from local distilleries- instead of water); adulteration of milk with water, baking soda, and chalk; discovery of milk bottles for delivery; milk associated with diseases (tuberculosis, typhoid fever, cholera, scarlet fever and brucellosis); pasteurization; milk grading; the invention of the Rotolactor to milk cows; the threat of radioactivity in milk; contaminated feed (with polybrominated biphenyl); and testing for antibiotics in milk are discussed in detail. Various sketches and pictures complement the text. Includes index. 106 p. : ill. ; 24 cm. Bibliography: p. 100-102. (NAL Call No.: DNAL jSF257.G5 1986).

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Milk of dairy cows frequently contains a leukemogenic virus (Bovine leukemia virus, lambs).

Ferrer, J.F. Kenyon, S.J.; Gupta, P. Washington, D.C., American Association for the Advancement of Science. Science. Aug 28, 1981. v. 213 (4511). p. 1014-1016. 25 ref. (NAL Call No.: 470 SCI2).

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Milk plasmin, N-acetyl-beta-glucosaminidase, and antitrypsin as determinants of bacterial replication rates in whey.

JDSCAE. Mattila, T. Sandholm, M. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Mar 1986. v. 69 (3). p. 670-675. Includes 19 references. (NAL Call No.: DNAL 44.8 J822).

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Morphine in cow and human milk: could dietary morphine constitute a ligand for specific morphine (Mu) receptors.

Hazum, E. Sabatka, J.J.; Chang, K.J.; Brent, D.A.; Findlay, J.W.A.; Cuatrecasas, P. Washington, D.C., American Association for the Advancement of Science. Science. Aug 28, 1981. v. 213 (4511). p. 1010-1012. ill. 25 ref. (NAL Call No.: 470 SCI2).

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Nontransmission of deoxynivalenol (vomitoxin) to milk following oral administration to dairy cows.

JPFCD2. Prelusky, D.B. Trenholm, H.L.; Lawrence, G.A.; Scott, P.M. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1984. v. 19 (7). p. 593-609. ill. Includes references. (NAL Call No.: DNAL TD172.J61).

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Occurrence and survival of *Campylobacter jejuni* in milk and turkey (Meat).

Wyatt, C.J. JFPRD. Timm, E.M. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Nov 1982. v. 45 (13). p. 1218-1220. 18 ref. (NAL Call No.: 44.8 J824).

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Parlor problems, teat dips, and milk iodine content (Dairy cows, sanitation, iodine residues).

Crist, W.L. KY. Lewis, P. Lexington, The Station. Progress report - Kentucky, Agricultural Experiment Station. June 1980. June 1980. (249). p. 21-22. (NAL Call No.: 100 K41PR).

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Pharmacokinetics of single doses of gentamicin given by intravenous and intramuscular routes to lactating cows.

AJVRH. Haddad, N.S. Ravis, W.R.; Pedersoli, W.M.; Carson, R.L. Jr. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Apr 1986. v. 47 (4). p. 808-813. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Pilot studies in cattle and mice to determine the presence of 4-methylimidazole in milk after oral ingestion.

VHTOD. Morgan, S.E. Edwards, W.C. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. June 1986. v. 28 (3). p. 240-242. Includes 9 references. (NAL Call No.: DNAL SF601.A47).

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Practical hygienic control of milk contamination and udder infections.

Bushnell, R.B. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. 1984. (23rd). p. 31-42. (NAL Call No.: DNAL SF967.M3N32).

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Preparation and immunological properties of a Brilliant Blue-protein conjugate (Tracer dyes, treatment of mastitis in dairy cows, anti-infective agents).

Liakopoulou, A. Vilim, A.B.; Awang, V.C. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1981. v. 44 (7). p. 524-526.

22 ref. (NAL Call No.: 44.8 J824).

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Prevalence of capsular polysaccharide types 5 and 8 among staphylococcus aureus isolates from cow, goat, and ewe milk.

JCMIDW. Poutrel, B. Boutonnier, A.; Sutra, L.; Fournier, J.M. Washington, D.C. : American Society for Microbiology. Journal of clinical microbiology. Jan 1988. v. 26 (1). p. 38-40. Includes references. (NAL Call No.: DNAL QR46.J6).

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The problem with bathtub mastitis remedies.

Crawford, L.M. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Sept 1985. v. 5 (9). p. 335-336. (NAL Call No.: DNAL SF221.D342).

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Protein composition of whey from subclinical mastitis and effect of treatment with levamisole (Dairy cows).

Ishikawa, H. Shimizu, T.; Hirano, H.; Saito, N.; Nakano, T. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Apr 1982. v. 65 (4). p. 653-658. ill. Includes 36 ref. (NAL Call No.: 44.8 J822).

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Quantitative evaluation of a bovine antibiotic infusion product by milk residue depletion studies.

JFPRDR. Larocque, L. Neville, G.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1985. v. 48 (7). p. 611-615. Includes 6 references. (NAL Call No.: DNAL 44.8 J824).

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A quantitative study of enterotoxin production by sheep milk staphylococci.

APMBA. Bautista, L. Gaya, P.; Medina, M.; Nunez, M. Washington, D.C. : American Society for Microbiology. Abstract: Of 124 staphylococcal strains isolated from sheep milk, 78 produced enterotoxin A, B, C, or D when evaluated by an enzyme-linked immunosorbent assay. Enterotoxins A and D, elaborated by 44 and 43 strains, respectively, showed the highest incidence. Enterotoxin production by coagulase-negative strains (one *Staphylococcus cohnii*, three *S. epidermidis*, five *S. haemolyticus*, and four *S. xylosum*) was detected. Linear and logarithmic-logarithmic regressions of optical density on enterotoxin

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concentration yielded the best-fitting equations for enterotoxin quantitation. A significantly higher incidence of enterotoxin producers and significantly higher levels of enterotoxins produced were recorded for coagulase-positive, thermostable nuclease-positive, hemolysis-positive, or mannitol-positive strains. Mannitol utilization was the best test for discriminating between enterotoxigenic and nonenterotoxigenic staphylococci. Applied and Environmental microbiology. Feb 1988. v. 54 (2). p. 566-569. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Relationships among the results of coagulase, staphylococcal toxin, and thermonuclease tests on staphylococci from cow milk.
JCMIDW. Jasper, D.E. Infante, F.; Dellinger, J.D. Washington, D.C. : American Society for Microbiology. Journal of clinical microbiology. Apr 1985. v. 21 (4). p. 582-584. Includes 21 references. (NAL Call No.: DNAL QR46.J6).

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Residues in colostrum following antibiotic dry cow therapy.
JDSCAE. Oliver, S.P. Duby, R.T.; Prange, R.W.; Tritschler, J.P. II. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Dec 1984. v. 67 (12). p. 3081-3084. Includes 18 references. (NAL Call No.: DNAL 44.8 J822).

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Residues in dairy cows following antibiotic administration.
Oliver, S.P. Duby, R.T.; Tritschler, J.P. II; Prange, R.W. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. 1984. (23rd). p. 125-132. Includes references. (NAL Call No.: DNAL SF967.M3N32).

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Residues of cypermethrin in milk from cows wearing impregnated ear tags.
BECTA. Braun, H.E. Frank, R.; Miller, L.A. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. July 1985. v. 35 (1). p. 61-64. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

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Residues of para, para prime -DDE and dicofol in milk of dairy cows fed commercially produced apple pomace.
JFSAD. Chase, L.E. Eckerlin, R.H.; Ebel, J.G. Jr.; Maylin, G.A.; Gutenmann, W.H.; Lisk, D.J. Westport, Conn. : Food & Nutrition Press. Journal of food safety. 1987. v. 8 (4). p. 245-253. Includes references. (NAL Call No.: DNAL TP373.5.J62).

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Residues of the plant growth regulator mefluidide (N-(2,4-dimethyl-5-(((trifluoromethyl)sulfonyl)-amino)phenyl)acetamide) in the milk and tissues of lactating dairy cows: a 28-day feeding study.
Clark, D.E. Coppock, C.E.; Ivie, G.W. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1981. v. 29 (6). p. 1175-1179. 10 ref. (NAL Call No.: 381 J8223).

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Selenium in milk of dairy cows fed the newly legalized 0.3 PPM selenium-supplemented diet.
JFSAD. Essick, L.A. Lisk, D.J. Westport, Conn. : Food & Nutrition Press. Journal of food safety. Includes statistical data. 1987. v. 8 (4). p. 255-259. Includes references. (NAL Call No.: DNAL TP373.5.J62).

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Sensitive enzyme immunoassay of cephalixin residues in milk, hen tissues, and eggs.
JANCA2. Kitagawa, T. Gotoh, Y.; Uchihara, K.; Kohri, Y.; Kinoue, T.; Fujiwara, K.; Ohtani, W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Sept/Oct 1988. v. 71 (5). p. 915-920. Includes references. (NAL Call No.: DNAL 381 AS7).

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Super weeds.
DAGPA. Staath, D. Corvallis, Or. : The Station. Oregon's agricultural progress - Oregon Agricultural Experiment Station. Summer 1986. v. 33 (1). p. 16-19. ill. (NAL Call No.: DNAL 100 OR30R).

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Teat dip as a component of coliform mastitis control (Dairy cows, California).

Bennett, R.H. Ames, Iowa, International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Mar 1982. v. 2 (3). p. 110-114. Includes 13 ref. (NAL Call No.: SF221.D342).

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Teat dips: use right or invite Uncle Sam.

DHMGGA. Annexstad, J. Minnetonka, Minn. : Miller Publishing Co. Dairy herd management. Apr 1988. v. 25 (4). p. 12-13, 16, 18-19. ill. (NAL Call No.: DNAL SF191.D3).

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Tissues and milk residues of tansy ragwort alkaloids (Senecio jacobaea, cows and dairy goats).

Dickinson, J.O. Stillwater, Okla., The Association. Proceedings...annual convention - American Association of Bovine Practitioners. 1981. 1981. (14th). p. 137-138. 4 ref. (NAL Call No.: SF961.A5).

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Transfer coefficients of radionuclides secreted in milk of dairy cows.

Sam, D. Williams, W.F.; Rockmann, D.D.; Allen, J.T. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Sept 1980. v. 63 (9). p. 1447-1454. ill. 11 ref. (NAL Call No.: 44.8 J822).

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Transfer of thiocyanate into chicken eggs.

JTEHD6. Carew, S.N. Davis, R.H.; Sykes, A.H. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. 1986. v. 17 (4). p. 441-444. Includes references. (NAL Call No.: DNAL RA565.A1J6).

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Update on postmilking teat antisepsis (Cows, mastitis, Streptococcus agalactiae, disinfectants).

Pankey, J.W. Cuming, A.L.; Daggett, R.D.; Eberhart, R.U.; Farnsworth, R.J. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. 1983. Literature review. 1983. (22nd). p. 52-103. Includes references. (NAL Call No.: SF967.M3N32).

2521

Use of total and differential somatic cell counts to differentiate potentially infected from potentially non-infected quarters and cows and between herds of various levels of infection (Mastitis, milk samples).

Meek, A.H. Barnum, D.A.; Newbould, F.H.S. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1980. v. 43 (1). p. 10-14. 5 ref. (NAL Call No.: 44.8 J824).

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When in doubt--don't (Antibiotic administration, dairy cows, milk contamination).

Britt, J. Minneapolis, Miller Publishing. Dairy herd management. May 1981. v. 18 (6). p. 72. (NAL Call No.: SF191.D3).

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2523

Addendum: organochlorine and organophosphorus residues in fat of bovine and porcine carcasses marketed in Ontario, Canada from 1969 to 1981.

Frank, R. Braun, H.E.; Fleming, G. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1984. v. 47 (4). p. 328. (NAL Call No.: 44.8 J824).

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Aflatoxicol and aflatoxins B1 and M1 in the tissues of pigs receiving aflatoxin (Contaminated feeds).

Trucksess, M.W. Stoloff, L.; Brumley, W.C.; Wilson, D.M.; Hale, O.M.; Sangster, L.T.; Miller, D.M. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. July 1982. v. 65 (4). p. 884-887. 12 ref. (NAL Call No.: 381 AS7).

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African swine fever (Pork and pork products, contamination).

Conatser, G. Hindsdale, Ill., The Institute. Official proceedings: annual meeting - Livestock Conservation Institute. 1980. 1980. p. 73-79. (NAL Call No.: 280.3409 L75A).

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Antibiotics: squandering a medical miracle.

Zuckerman, S. Washington, D.C. : Center for Science in the Public Interest. Abstract: Antibiotic feed additives first went on sale in the early 1950's. Poultry, cattle, and hog farmers began adding antibiotics to feed even when the animals were not sick. These drugs help livestock grow bigger and faster, and protect against infection, so animals can be confined tightly together without developing diseases fostered by overcrowding. Unfortunately, this practice is breeding strains of drug-resistant microorganisms that make these medications worthless in fighting human disease. Under pressure from the "animal health" industry, Congress blocked the FDA's proposal to ban antibiotic feed additives, and to date, legislative officials have not been able to modify or restrict the practice. (lsp). Nutrition action health letter. Jan/Feb 1985. v. 12 (1). p. 8-11. ill. Includes 4 references. (NAL Call No.: DNAL TX341.N98).

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Antioxidant activity of onion and garlic juices in stored cooked ground lamb.

JFPRDR. Jurdi-Haldeman, D. MacNeil, J.H.; Yared, D.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1987. v. 50 (5). p. 411-413, 417. Includes

references. (NAL Call No.: DNAL 44.8 J824).

2528

Assessment of cadmium, lead and vanadium status of large animals as related to the human food chain.

JANSAG. Fox, M.R.S. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Paper presented at the symposium on "Assessment of Mineral Status in Domestic Animals," July 30, 1986, Manhattan, Kansas. Dec 1987. v. 65 (6). p. 1744-1752. Includes references. (NAL Call No.: DNAL 49 J82).

2529

Bacteria-laden meat: who is to blame?.

Washington, D.C. : Community Nutrition Institute. Abstract: A brief report discusses the responsibilities of the US regulatory meat and poultry inspection system and of retail food stores and consumers for preventing the consumption of meat and poultry contaminated with bacteria. Changes in the inspection system and cost-effective inspection models also are discussed. Six specific recommendations are appended for preventing bacterial contamination in meat and poultry. These include the imposition of severe penalties by USDA for the use of contaminated animal feeds, the establishment of national animal husbandry sanitation standards, improved processing quality methods to prevent cross-contamination, development of a more active national surveillance system for documenting foodborne illness, and consumer education. (wz). Nutrition week. Apr 9, 1987. v. 17 (15). p. 4-5. (NAL Call No.: DNAL TX341.C6).

2530

Bioluminescent ATP assay for rapid estimation of microbial numbers in fresh meat.

JFPRDR. Littell, K.J. Pikelis, S.; Spurgash, A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1986 v. 49 (1). p. 18-22. Includes 20 references. (NAL Call No.: DNAL 44.8 J824).

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Breed effects on dieldrin accumulation in the fat of growing chickens.

Siegel, H.S. Latimer, J.W. Champaign, Ill., Poultry Science Association. Poultry science. Oct 1981. v. 60 (10). p. 2218-2220. ill. 5 ref. (NAL Call No.: 47.8 AM33P).

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Cadmium in tissues of swine fed barley grown on municipal sludge-amended soil.

JFSAD. Bache, C.A. Gutenmann, W.H.; Kirtland, D.; Lisk, D.J. Westport, Conn. : Food & Nutrition Press. Journal of food safety. 1987. v. 8 (3). p. 199-204. Includes references. (NAL Call No.: DNAL TP373.5.J62).

2533

Campylobacter jejuni.

Gravani, R.B. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Nov 1986. v. 6 (11). p. 509-510. (NAL Call No.: DNAL SF221.D342).

2534

Carrier rate of Streptococcus suis capsular type 2 in palatine tonsils of slaughtered pigs.

JCMIDW. Arends, J.P. Hartwig, N.; Rudolph, M.; Zanen, H.C. Washington, D.C. : American Society for Microbiology. Journal of clinical microbiology. Nov 1984. v. 20 (5). p. 945-947. Includes 15 references. (NAL Call No.: DNAL QR46.J6).

2535

Changes underway to correct inadequacies in Florida's Meat and Poultry Inspection Program : report to the Honorable Lawton Chiles, United States Senate / by the U.S. General Accounting Office. -.

United States ~ General Accounting Office. (Washington, D.C.) The Office ; for sale by Supt. of Docs., U.S.G.P.O. 1982. Cover title ~"December 30, 1982. ~"GAO/RCED-83-70. ~"B-210209.". iv, 33 p. ; 28 cm. (NAL Call No.: HD9410.9.U5U52).

2536

Chloramphenicol.

Rome : Food and Agriculture Organization of the United Nations. Abstract: A report presents information on the chemical name, structure, chemical characteristics, and physical properties of the hormonally active drug, chloramphenicol, and residue levels at various times after its injection into calves. Methods used for the quantification of its residue levels are evaluated, and methodological improvements are suggested. (wz). FAO food and nutrition paper. Prepared by the Thirty-Second Meeting of the Joint FAO/WHO Expert Committee on Food Additives, June 15-23, 1987, Rome, Italy. 1988. (41). p. 1-6. ill. Includes 14 references. (NAL Call No.: DNAL TX341.F605).

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Chlorinated dibenzo-p-dioxins, chlorinated dibenzofurans, and pentachlorophenol in Canadian chicken and pork samples.

JAFCAU. Ryan, J.J. Lizotte, R.; Sakuma, T.; Mori, B. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1985. v. 33 (6). p. 1021-1026. Includes references. (NAL Call No.: DNAL 381 J8223).

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Leman, A.D. Pullen, M.M. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 97-98. Includes references. (NAL Call No.: DNAL SF601.J62).

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Clostridium botulinum ionizing radiation D-value determination using a micro food sample system.

Kreiger, R.A. Snyder, D.P.; Pflug, I.J. Chicago : Institute of Food Technologists. Abstract: Classical approaches to irradiation D-value determinations were incorporated into a new miniaturized sample-handling and spore recovery methodology for accurate rapid D-value determinations. Pork, ham, and chicken injected with salt solutions were inoculated with Clostridium botulinum spores in sealed, evacuated (250, 125, and 50 mm Hg) polypropylene cryotubes, and were irradiated with gamma radiation (Co-60) at -40 to -20 degrees C in radiation doses up to 1.8 Mrads. The resultant D-values agreed closely with values reported in the literature; the D-value estimates encompassed a standard error of 0.025 Mrad at a significance level of below 0.05. Replicate experiments on different days shed excellent reproducibility. (wz). Journal of food science. Jan/Feb 1983. v. 48 (1). p. 141-145. ill., charts. Includes 31 references. (NAL Call No.: 389.8 F7322).

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Comparison of brands of media for isolating bacteria from poultry, beef and shrimp.

Lillard, H.S. Cox, N.A.; Bailey, J.S.; Thomson, J.E. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1984. v. 47 (5). p. 394-397. Includes references. (NAL Call No.: 44.8 J824).

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Comparison of liquid chromatographic and bioassay procedures for determining depletion of intramuscularly injected tylosin.

JANCA2. Moats, W.A. Harris, E.W.; Steele, N.C. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. May/June 1985. v. 68 (3). p. 413-416. Includes 7 references. (NAL Call No.: DNAL 381 AS7).

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A comparison of three bioassay techniques for the detection of chloramphenicol residues in animal tissues.

JAFCAU. Korsrud, G.O. Naylor, J.M.; Salisbury, C.D.; MacNeil, J.D. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1987. v. 35 (4). p. 556-559. Includes references. (NAL Call No.: DNAL 381 J8223).

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Competitive direct enzyme-linked immunosorbent assay for detection of sulfamethazine residues in swine urine and muscle tissue.

JANCA2. Dixon-Holland, D.E. Katz, S.E. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Nov/Dec 1988. v. 71 (6). p. 1137-1140. Includes references. (NAL Call No.: DNAL 381 AS7).

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A comprehensive compendium of sheet and goat drugs /by Stephen F. Sundlof, J. Edmond Riviere, Arthur L. Craigmill.

Sundlof, Stephen Frederick, 1951-. Riviere, J. Edmond.; Craigmill, Arthur L. Gainesville, Fla. : Institute of Food and Agricultural Sciences, University of Florida, c1988. Cover title: Sheet and goat drugs.~ "FARAD."~ Information from the Food animal residue avoidance databank, trade name file.~ Includes indexes. x, 75 p. ; 28 cm. (NAL Call No.: DNAL RA1270.F4R94).

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A comprehensive compendium of swine drugs /by Stephen F. Sundlof, J. Edmond Riviere, Arthur L. Craigmill.

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Confirmation of levamisole residues in cattle and swine livers by capillary gas chromatography-electron impact mass spectrometry.

JANCA2. Stout, S.J. DaCunha, A.R.; Tondreau, R.E.; Boyd, J.E. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Nov/Dec 1988. v. 71 (6). p. 1150-1153. Includes references. (NAL Call No.: DNAL 381 AS7).

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Danger lurks in your supermarket meat cases.

JAVMA. Menning, E.L. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Feb 15, 1988. v. 192 (4). p. 494-497. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Depletion of intramuscular injected procaine penicillin G from tissues of swine: A comparison of HPLC and bioassay procedures.

JAFCAU. Moats, W.A. Harris, E.W.; Steele, N.C. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. May/June 1986. v. 34 (3). p. 452-456. Includes references. (NAL Call No.: DNAL 381 J8223).

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Determination and depletion of residues of carbadox, tylosin, and virginiamycin in kidney, liver, and muscle of pigs in feeding experiments.

JANCA2. Lauridsen, M.G. Lund, C.; Jacobsen, M. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Sept/Oct 1988. v. 71 (5). p. 921-925. Includes references. (NAL Call No.: DNAL 381 AS7).

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Determination of aflatoxins in animal tissues (Beef, swine, chicken).

Stubblefield, R.D. Shotwell, D.L. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. July 1981. v. 64 (4). p. 964-968. ill. 13 ref. (NAL Call No.: 381 AS7).

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Determination of neomycin in animal tissues, using ion-pair liquid chromatography with fluorometric detection.

JANCA2. Shaikh, B. Allen, E.H.; Gridley, J.C. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists.

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Determination of penicillin G, ampicillin, and cephalirin residues in tissues (of food-producing animals, antibiotics).

Vilim, A.B. JANCA. Larocque, L. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Jan 1983. v. 66 (1). p. 176-179. 3 ref. (NAL Call No.: 381 AS7).

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Determination of virginiamycin residues in swine tissue using high-performance liquid chromatography.

JAFCAU. Moats, W.A. Leskinen, L. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1988. v. 36 (6). p. 1297-1300. Includes references. (NAL Call No.: DNAL 381 J8223).

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Development of a high volume testing system for certifying trichina tested pork at Lundy Packing Company.

Oliver, D. Madison, Wis. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1987. p. 118-124. Includes references. (NAL Call No.: DNAL 280.3409 L75A).

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Development of porcine rapid identification method (PRIME) by modified agar-gel immunodiffusion.

JANCA2. Cutrufelli, M.E. Mageau, R.P.; Schwab, B.; Johnston, R.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Mar/Apr 1988. v. 71 (2). p. 444-445. Includes references. (NAL Call No.: DNAL 381 AS7).

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Development of poultry rapid overnight field identification test (PROFIT).

JANCA2. Cutrufelli, M.E. Mageau, R.P.; Schwab, B.; Johnston, R.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. May/June 1986. v. 69 (3). p. 483-487. ill. Includes references. (NAL Call No.: DNAL 381 AS7).

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Development of USDA-FSIS method for isolation of *Listeria monocytogenes* from raw meat and poultry.

JANCA2. McClain, D. Lee, W.H. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Paper presented at workshop on *Listeria* Methodology, 101st AOAC Annual International Meeting, Sept. 14/17, 1987, San Francisco. May/June 1988. v. 71 (3). p. 660-664. ill. Includes references. (NAL Call No.: DNAL 381 AS7).

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Disposition of T-2 toxin, a trichothecene mycotoxin, in intravascularly dosed swine.

JAFCAU. Corley, R.A. Swanson, S.P.; Gullo, G.U.; Johnson, L.; Beasley, V.R.; Buck, W.B. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1986. v. 34 (5). p. 868-875. Includes references. (NAL Call No.: DNAL 381 J8223).

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Distribution of *Toxoplasma gondii* tissue cysts in commercial cuts of pork.

JAVMA4. Dubey, J.P. Murrell, K.D.; Fayer, R.; Schad, G.A. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. May 1, 1986. v. 188 (9). p. 1035-1037. Includes 10 references. (NAL Call No.: DNAL 41.8 AM3).

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Drug and chemical residues in the edible tissues of animals.

Booth, N.H. Ames, Iowa : Iowa State University Press, 1988. Veterinary pharmacology and therapeutics / edited by Nicholas H. Booth, Leslie E. McDonald. p. 1149-1205. Includes references. (NAL Call No.: DNAL SF915.J6 1988).

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Early detection of *Clostridium perfringens* enterotoxin and its relationship to sensory quality of cooked chicken.

JFSAD. Al-Obaidy, H.M. Khan, M.A.; Blaschek, H.P.; Klein, B.P. Westport, Conn. : Food & Nutrition Press. Journal of food safety. Apr 1985. v. 7 (1). p. 43-55. Includes references. (NAL Call No.: DNAL TP373.5.J62).

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Effect of feeding corn naturally contaminated with aflatoxin on feed efficiency, on physiologic, immunologic and pathologic changes, and on tissue residues in steers.

Richard, J.L.AJVRA. Pier, A.C.; Stubblefield, R.D.; Shotwell, O.L.; Lyon, R.L. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. July 1983. v. 44 (7). p. 1294-1299. ill. Includes references. (NAL Call No.: 41.8 AM3A).

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Effect of gamma radiation on Campylobacter jejuni.

Lambert, J.D. Maxcy, R.B. Chicago, Ill. : Institute of Food Technologists. Abstract: A study of gamma (cobalt-60) radiation sterilization (0-200 Krad) of a common bacterial food contaminant (Campylobacter jejuni) at temperatures of -20 to -40, 0-5, and 20-40 degrees C in broth, ground beef, and ground turkey revealed that: (1) broth cultures were not significantly influenced by temperature; (2) radiation at -30 degrees C increased radiation resistance of the bacterium in the ground meats; (3) radiation resistance did not correlate with bacterial culture age; and (4) a 10% reduction in C. jejuni was achieved at an irradiation dosage of 32 Krad, representing a lower dosage than that needed to achieve a 10% reduction in salmonella bacteria. (wz). Journal of food science. May/June 1984. v. 49 (3). p. 665-667, 674. ill. Includes 27 references. (NAL Call No.: 389.8 F7322).

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Effect of irradiation on the viability of Toxoplasma gondii cysts in tissues of mice and pigs.

AJVRAH. Dubey, J.P. Brake, R.J.; Murrell, K.D.; Fayer, R. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Mar 1986. v. 47 (3). p. 518-522. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Effects of cooking and/or processing upon levels of aflatoxins in meat from pigs fed a contaminated diet.

Furtado, R.M. Pearson, A.M.; Gray, J.I.; Hogberg, M.G.; Miller, E.R. Chicago, Institute of Food Technologists. Journal of food science. Sept/Oct 1981. v. 46 (5). p. 1306-1308, 1319. Includes 26 ref. (NAL Call No.: 389.8 F7322).

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Effects of dose and duration of therapy on gentamicin tissue residues in sheep.

AJVRAH. Brown, S.A. Copper, G.L.; Riviere, J.E. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Nov 1986. v. 47 (11). p. 2373-2379. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Enzyme immunoassay-based survey of prevalence of gentamicin in serum of marketed swine.

JANCA2. Berkowitz, D.B. Webert, D.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. May/June 1986. v. 69 (3). p. 437-441. Includes references. (NAL Call No.: DNAL 381 AS7).

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Enzyme immunoassay for screening sulfamethazine residues in swine blood.

JANCA2. Fleeker, J.R. Lovett, L.J. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Mar/Apr 1985. v. 68 (2). p. 172-174. Includes 18 references. (NAL Call No.: DNAL 381 AS7).

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An enzyme immunoassay technique for detection of salmonellae in meat and poultry products.

Emswiler-Rose, B. Gehle, W.D.; Johnston, R.W.; Okrend, A.; Moran, A.; Bennett, B. Chicago, Ill. : Institute of Food Technologists. Journal of food science. July/Aug 1984. v. 49 (4). p. 1018-1020. Includes references. (NAL Call No.: 389.8 F7322).

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Eosinophilic myositis and muscular sarcocystosis in the carcasses of slaughtered cattle and lambs.

AJVRAH. Jensen, R. Alexander, A.F.; Dahlgren, R.R.; Jolley, W.R.; Marquardt, W.C.; Flack, D.E.; Bennett, B.W.; Cox, M.F.; Harris, C.W.; Hoffmann, G.A.; Troutman, S.; Hoff, R.L. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Mar 1986. v. 47 (3). p. 587-593. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Evaluation of five miniaturized systems for identifying Enterobacteriaceae from stock cultures and raw foods (Fresh ground beef, shrimp and whole, ready-to-cook chicken broilers).

Cox, N.A.JFPRD. Bailey, J.S.; Thomson, J.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1983. v. 46 (10). p. 914-916. Includes references. (NAL Call No.: 44.8 J824).

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Evolution of the Division of Meat, Poultry and Livestock Inspection. -.

Illinois ~ Dept. of Agriculture. (Springfield?), Illinois Dept. of Agriculture 1982. January 1, 1982. 21 p. : ill. ; 22 cm. (NAL Call No.: TS1975.I57).

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The evolving situation of swine mycobacteriosis.

Brown, J. St. Paul, Minn. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1986. p. 168-170. (NAL Call No.: DNAL 280.3409 L75A).

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Examination of poultry giblets, raw milk and meat for Campylobacter fetus subsp. jejuni.

Christopher, F.M. Smith, G.C.; Vanderzant, C. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1982. v. 45 (3). p. 260-262. Includes 15 ref. (NAL Call No.: 44.8 J824).

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Fate of Listeria monocytogenes in tissues of experimentally infected cattle and in hard salami.

APMBA. Johnson, J.L. Doyle, M.P.; Cassens, R.G.; Schoeni, J.L. Washington, D.C. : American Society for Microbiology. Abstract: Muscle, organ, and lymphoid tissues of four Holstein cows experimentally inoculated (intravenously) with Listeria monocytogenes were examined 2, 6, or 54 days postinoculation for the presence of the organism by direct plating and cold enrichment procedures. L. monocytogenes was isolated from 66% of the tissues sampled; 38% of the isolations were attributed to the use of cold enrichment. Isolation of the organism from muscle tissue was possible only with animals inoculated 2 days before slaughter. The fate of L. monocytogenes during the manufacture and storage of fermented hard salami made from this meat also was determined. Three sausage treatments were evaluated: (i) uninoculated control sausage, (ii) 'naturally' contaminated

sausage (NC) made from meat of experimentally inoculated cow, and (iii) sausage made from beef inoculated with a laboratory culture of L. monocytogenes (I). Initial Listeria levels in NC and I sausage were 10(3) CFU/g in trial 1 and 10(4) CFU/g in trial 2. Numbers of L. monocytogenes decreased by approximately 1 log10 CFU/g during fermentation and decreased further during drying and refrigerated storage. Small numbers (less than or equal to 20 CFU/g) of L. monocytogenes were present in I and NC sausage at the end of 12 weeks of refrigerated storage; recovery of these organisms generally depended on the use of an enrichment procedure. The results indicate that L. monocytogenes does not multiply during the fermentation and drying processes typical of hard salami manufacture but that survival may occur if the organism is initially present at greater than or equal to 10(3) CFU/g. Applied and Environmental microbiology. Feb 1988. v. 54 (2). p. 497-501. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Federal and state coordination in controlling toxic substances (from the perspective of the Federal Meat and Poultry Inspection Program).

McNay, M.C. USDA. Barrington, R.I., The Association. Quarterly bulletin - Association of Food and Drug Officials. July 1980. v. 44 (3). p. 175-179. (NAL Call No.: 389.9 AS7Q).

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Foodborne illness associated with a pig roast.

JFPRDR. Novotny, T. Dingman, J.D.; Pavia, A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Nov 1987. v. 50 (11). p. 945-947. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Foodborne illnesses and deathshearing before the Committee on Agriculture, Nutrition, and Forestry, United States Senate, One Hundredth Congress, first session, June 4, 1987.

United States.~Congress.~Senate.~Committee on Agriculture, Nutrition, and Forestry. Washington D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1988. Abstract: A major congressional report presents the full testimony of a 1987 hearing before the US Senate on incidence of foodborne illness and mortality due to food contaminants, and food safety requirements for reducing such risks. The report includes the statements of 9 Senators and testimony by 5 witnesses. The witnesses include leaders from the USDA Food Safety and Inspection Service, the Center for Infectious Diseases, the FDA Center for Food Safety and Applied Nutrition, the USDA Economic Research Service, and the National Association of Federal Veterinarians. Ancillary material

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submitted for the record is appended. Attention is given to the incidence and cost of US foodborne disease. Distributed to some depository libraries in microfiche. iii., 110 p. : ill. ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF26.A35 19871).

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Foreign countries and plants certified to export meat and poultry to the United States /report of the Secretary of Agriculture to the U.S. Congress.

Washington, D.C. : U.S. Dept. of Agriculture, Food Safety and Inspection Service, 1988. Cover title.~ Chiefly tables. 138 p. ; 28 cm. (NAL Call No.: DNAL aHD9410.1.F67).

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Furazolidone residues in chicken and swine tissues after feeding trials (Growth promoters, residues).

Winterlin, W. Mourer, C.; Hall, G.; Kratzer, F.; Weaver, G.L.H. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1984. v. 19 (2). p. 209-224. Includes references. (NAL Call No.: TD172.J61).

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Growth of indicator, pathogenic and psychrotrophic bacteria in mechanically separated beef, lean ground beef and beef bone marrow.

JFPRDR. Ray, Bibek. Johnson, Craig; Field, R.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Growth of *Escherichia coli*, *Salmonella anatum*, *Staphylococcus aureus*, *Clostridium perfringens* and naturally occurring psychrotrophs in mechanically separated beef (MSB), lean ground beef (LGB) and beef bone marrow (BBM) was studied. Six good grade steers were slaughtered and samples of MSB, LGB and BBM were prepared under proper sanitary care. Six hundred grams of each sample were collected; 100 grams were used for chemical analysis. The remaining 500 grams were divided into 10-grams portions, each mixed with 10 ml of water and either frozen to -20 C or used immediately for bacteriological analysis. For growth studies, samples were inoculated with *E. coli* or one of the pathogens, incubated at 37-C up to 24 hours and enumerated for colony forming units (CFU) on specific selective agar plates. During the first 8 hours of incubation, *E. coli* and *S. anatum* multiplied rapidly in MSB and LGB but rather slowly in BBM. By 24 hours, both species had multiplied to the same population level. Initial growth of *S. aureus* was rapid in MSB and LGB, but by 24 hours its number was higher in LGB than in MSB or BBM. *C. perfringens* grew faster in LGB and slower in BBM during the 24 hours period. Growth of psychrotrophs was determined by incubating the materials at 10,7

and 3 C up to 10 days. The psychrotrophs grew fastest in MSB and slowest in LGB at all three temperatures, especially at 3 C. Rapid growth of various bacteria in MSB should be considered in its production, storage and subsequent use. (Author). Journal of food protection. Sept 1984. v. 47 (9). p. 672-677. ill., charts. Includes 13 references. (NAL Call No.: DNAL 44.8 J824).

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Hamburgers and broiler chickens as potential sources of human *Campylobacter enteritis*.

Gill, C.O.JFPRDR. Harris, L.M. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1984. v. 47 (2). p. 96-99. Includes references. (NAL Call No.: 44.8 J824).

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Hazards of extra-label use of dimetridazole.

JAVMA. Parkhie, M.R. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Aug 1, 1986. v. 189 (3). p. 270-271. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Heptachlor contamination tested.

Denver, Colo. : American School Food Service Association. Abstract: The Food Safety and Inspection Service (FSIS) of the U.S. Department of Agriculture (USDA) recently initiated testing of livestock for heptachlor residues. Heptachlor was banned for most agricultural uses in 1978 due to its potential carcinogenicity. Six of the 196 samples initially tested were found to contain the pesticide; samples were taken from dairy cattle, beef cattle, and swine. Efforts are currently underway to identify the herds from which the animals came and the slaughterhouses through which the meat travelled. USDA is testing products produced for the National School Lunch Program by processors who receive raw meat from plants located in Arkansas, Missouri, Oklahoma, and Kans. School districts are being encouraged not to use the meat until further testing is completed. At the present, FSIS Administrator Donald Houston does not feel the problem with heptachlor contamination of the meat supply is widespread. Producers with contaminated herds are being urged to take precautions to prevent exposure. School foodservice journal. May 1986. v. 40 (4). p. 36. (NAL Call No.: DNAL 389.8 SCH6).

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Hexestrol residues and metabolites in the tissues of wethers injected with hexestrol dicaprylate or hexestrol.
JANSAG. Tobioka, H. Kawashima, R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1985. v. 60 (2). p. 511-518. Includes references. (NAL Call No.: DNAL 49 J82).

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High performance liquid chromatographic determination and clearance time of aflatoxin residues in swine tissues.
Miller, D.M. Wilson, D.M.; Wyatt, R.D.; McKinney, J.K.; Crowell, W.A.; Stuart, B.P. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. Jan 1982. v. 65 (1). p. 1-4. Includes 17 ref. (NAL Call No.: 381 AS7).

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High pressure liquid chromatographic determination of nitrofurazone and furazolidone in chicken and pork tissues (Nitrofurans, feed additives).
Sugden, E.A. JANCA. MacIntosh, A.I.; Vilim, A.B. Arlington : The Association. Journal of the Association of Official Analytical Chemists. July 1983. v. 66 (4). p. 874-880. Includes references. (NAL Call No.: 381 AS7).

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History of the federal meat and poultry inspection program.
Miller, W.R. Ames, Iowa : Iowa State University Press, 1986. Practices in veterinary public health and preventive medicine in the United States / edited by George T. Woods. p. 3-23. Includes references. (NAL Call No.: DNAL SF623.P73 1986).

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How does the swine industry evaluate the trichina situation?
Mulhern, F.J. Madison, Wis. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1987. p. 116-118. (NAL Call No.: DNAL 280.3409 L75A).

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How to prevent sulfa residues in hogs.
Washington, D.C. : The Service. FSIS - Food Safety and Inspection Service, U.S. Department of Agriculture. Dec 1985. (31,rev.). 9 p. ill. (NAL Call No.: DNAL aHD9000.9.U5A15).

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Identification and quantitation of sulfamethazine metabolites by liquid chromatography and gas chromatography-mass spectrometry.
JANCA2. Paulson, G.D. Mitchell, A.D.; Zaylskie, R.G. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Sept/Oct 1985. v. 68 (5). p. 1000-1006. Includes 20 references. (NAL Call No.: DNAL 381 AS7).

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Identification and semiquantitation of monensin sodium in liver tissue.
JANCA2. Martinez, E. Shimoda, W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. July/Aug 1984. v. 67 (4). p. 845-846. Includes 5 references. (NAL Call No.: DNAL 381 AS7).

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Identification of enterobacteriaceae in foods with the AutoMicrobic System.
JFPRDR. Bailey, J.S. Cox, N.A.; Thomson, J.E.; Fung, D.Y.C. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1985. v. 48 (2). p. 147-149. Includes 14 references. (NAL Call No.: DNAL 44.8 J824).

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Ignorance is main culprit in bob calf residues.
DHMGA. Rossiter, C.A. Hutchinson, L.J. Minneapolis : Miller Publishing Co. Dairy herd management. Mar 1984. v. 21 (3). p. 60, 63-64. ill. (NAL Call No.: DNAL SF191.D3).

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Impact of technology and funding on meat and poultry inspection.
Houston, D.M. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 99-100. (NAL Call No.: DNAL SF601.J62).

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Improved selective procedure for detection of salmonellae from poultry and sausage products.
JFPRDR. Bailey, J.S. Chiu, J.Y.; Cox, N.A.; Johnston, R.W. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May

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1988. v. 51 (5). p. 391-396. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Incidence of mesophilic Clostridium spores in raw pork, beef, and chicken in processing plants in the United States and Canada.
APMBA. Greenberg, R.A. Tompkin, R.B.; Bladel, B.D.; Kittaka, R.S.; Anellis, A. Baltimore, Md. : American Society for Microbiology. Applied microbiology. Sept 1966. v. 14 (5). p. 789-793. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Indicator organisms in meat and poultry products.
Tompkin, R.B. FOTEA. Chicago : Institute of Food Technologists. Food technology. June 1983. v. 37 (6). p. 107-110. Includes references. (NAL Call No.: 389.8 F7398).

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Interview with Bill McMillan (Assistant Secretary of Agriculture for Marketing and Transportation Services)--two areas for top priority: inspection and safety (Meat and poultry inspection).
Christensen, C.R. Mount Morris, Ill., Watt Publishing Co. Broiler industry. July 1981. v. 44 (7). p. 42-44, 46. ill. (NAL Call No.: 47.8 N45).

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Introduction to safe meat and poultry from farm to table.
Menning, E.L. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 84-85. (NAL Call No.: DNAL SF601.J62).

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Irradiation for control of Salmonella and other pathogens in poultry and fresh meats.
FOTEA. Kampelmacher, E.H. Chicago, Ill. : Institute of Food Technologists. Food technology. Based on a paper presented during the symposium, "Food Irradiation--A Challenge for the 1980s," at the 42nd Annual Meeting of the Institute of Food Technologists, June 22/25, 1982, Las Vegas.~ Literature review. Apr 1983. v. 37 (4). p. 117-119, 169. Includes references. (NAL Call No.: DNAL 389.8 F7398).

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Isolation and identification of a polar sulfamethazine "Metabolite" from swine tissue (Meat contamination with drug residues).
Giera, D.D. Abdulla, R.F.; Occolowitz, J.L.; Dorman, D.E.; Mertz, J.L.; Sieck, R.F. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1982. v. 30 (2). p. 260-263. ill. Includes 3 ref. (NAL Call No.: 381 J8223).

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Isolation of a DNA probe for Lactobacillus curvatus.
APMBA. Petrick, H.A.R. Ambrosio, R.E.; Holzappel, W.H. Washington, D.C. : American Society for Microbiology. Abstract: A genomic library of Lactobacillus curvatus DSM 20019 was constructed in bacteriophage gamma gt11. A 1.2-kilobase DNA probe specific for L. curvatus was isolated from this library. When this probe was hybridized to DNA from Lactobacillus isolates from different sources classified by conventional techniques, differing degrees of hybridization were obtained. This could simply imply that these isolates may have been incorrectly classified. Applied and Environmental microbiology. Feb 1988. v. 54 (2). p. 405-408. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Isolation of Escherichia coli O157:H7 from retail fresh meats and poultry.
APMBA. Doyle, M.P. Schoeni, J.L. Washington, D.C. : American Society for Microbiology. Applied and Environmental microbiology. Oct 1987. v. 53 (10). p. 2394-2396. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Labels on meat and poultry products.
Washington, D.C., The Department. Agriculture information bulletin - United States Dept. of Agriculture. Apr 1981. Apr 1981. (443). 6 p. ill. (NAL Call No.: 1 AG84AB).

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LCI abscess survey, preliminary results.
Black, N. St. Paul, Minn. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1986. p. 156-161. (NAL Call No.: DNAL 280.3409 L75A).

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Liquid chromatographic determination of aflatoxicol in porcine liver.

JANCA2. Tyczkowska, K. Hutchins, J.E.; Hagler, W.M. Jr. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. May/June 1987. v. 70 (3). p. 475-478. Includes references. (NAL Call No.: DNAL 381 AS7).

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Liquid chromatographic method for determining the macrolide antibiotic sedecamycin and its major metabolites in swine plasma and tissues.

JANCA2. Okada, J. Kondo, S. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. Sept/Oct 1987. v. 70 (5). p. 818-824. Includes references. (NAL Call No.: DNAL 381 AS7).

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Liquid chromatographic monitoring of the depletion of carbadox and its metabolite desoxycarbadox in swine tissues.

JANCA2. MacIntosh, A.I. Lauriault, G.; Neville, G.A. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. July/Aug 1985. v. 68 (4). p. 665-671. Includes 6 references. (NAL Call No.: DNAL 381 AS7).

2610

Long-term persistence of Toxoplasma gondii in tissues of pigs inoculated with Toxoplasma oocysts and effect of freezing on viability of tissue cysts in pork.

AUVRAH. Dubey, J.P. Schaumburg, Ill. : American Veterinary Medical Association. Abstract: To study the distribution of tissue cysts in porcine tissues, 16 pigs were fed oocysts of 4 strains of Toxoplasma gondii (4 pigs/strain). Pigs were euthanatized between postinoculation days 103 and 875 and portions of 5 to 14 organs were bioassayed in mice and/or cats for T gondii. For bioassays, 50- to 100-g portions of tissue were incubated in acidic pepsin solution to free bradyzoites from cysts in parenchyma, and washed sediment from the digests of each specimen was inoculated SC into mice (6 mice/organ). For bioassays in cats, a 500-g portion or whole organ was fed to Toxoplasma-free cats (1 cat/organ). Toxoplasma gondii was recovered from tissues of 14 of the 16 pigs (from the brains of 12, hearts of 11, tongues of 10, and diaphragms of 6). Toxoplasma gondii was isolated from commercial cuts of meat from 5 infected pigs, from the arm picnic and ham of 3, Boston butt, spareribs, and tenderloin of 2, and bacon and tailbone of 1. Regarding the 4 pigs euthanatized between postinoculation days 759 and 865, cats shed T gondii oocysts after the ingestion of hearts of all 4; tongues of 3; bacons, hams, arm picnics, Boston butts, spareribs, and diaphragms of 2;

and livers, kidneys, and tenderloins of 1. Toxoplasma gondii was found to be inconsistently distributed among the organs and muscles, but overall, tongue and heart were more heavily infected than were other tissues. Tissue cysts in pork were rendered nonviable at -12 C for 3 days. American journal of veterinary research. June 1988. v. 49 (6). p. 910-913. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Management to prevent drug residue problems in pork (Swine, nutrition).

Cromwell, G.L. Biehl, L.G.; Wilcox, R.A. West Lafayette, Ind. : The Service, 1978/1984. Pork industry handbook / Purdue University, Cooperative Extension Service. PIH-86, Mar 1983. 6 p. ill. (NAL Call No.: SF395.P62).

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Meat and poultry inspection report of the Secretary of Agriculture to the Committee on Agriculture, House of Representatives and Committee on Agriculture, Nutrition, and Forestry, U.S. Senate /United States Department of Agriculture, Food Safety and Quality Service.

United States.~Food Safety and Quality Service. Washington, D.C. : The Service, -1980. Title from cover. v. : ill. ; 28 cm. (NAL Call No.: DNAL aTS1975.A1U5).

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Meat and poultry inspection report of the Secretary of Agriculture to the U.S. Congress /United States Department of Agriculture, Food Safety and Inspection Service.

United States.~Food Safety and Inspection Service. Washington, D.C. : The Service, . Meat and poultry inspection. Description based on: 1985; title from cover.~ Subtitle varies. v. : ill. ; 28 cm. (NAL Call No.: DNAL aTS1975.A1U5).

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Meat and poultry inspection the scientific basis of the nation's program /prepared by the Committee on the Scientific Basis of the Nation's Meat and Poultry Inspection Program, Food and Nutrition Board, Commission on Life Sciences, National Research Council.

National Research Council (U.S.).~Committee on the Scientific Basis of the Nation's Meat and Poultry Inspection Program. Washington, D.C. : National Academy Press, 1985. Abstract: An authoritative report prepared by an expert committee of the National Research Council's Food and Nutrition Board for the meat and poultry industry and its regulators summarizes the current body of knowledge concerning the human health hazards of meat and poultry

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contaminants as they affect quality and public safety, and the technological status of inspection to ensure product quality and safety for consumers. Topics covered in the 10 sections of this report include: a history of inspection programs and current controversies and concerns; public health hazards due to biological and chemical contamination, and their management; environmental factors associated with meat and poultry production; antemortem and postmortem inspections; inspections during meat and poultry processing; application of the hazard analysis critical control point approach to food safety; recent technological advances in meat and poultry inspection; and evidence needed for quantitative health risk assessment for decision making in meat and poultry inspection. An executive summary of the findings and recommendations of the overall study precedes the body of the report, and information on US production levels of meat and poultry and on USDA quality control regulations is appended. xii, 209 p. ; 28 cm. Includes bibliographies and index. (NAL Call No.: DNAL TS1975.N38).

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Meat and poultry safety: United States concerns.

McMillan, C.W. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 86-87. (NAL Call No.: DNAL SF601.J62).

2616

Metabolic fate of the herbicide dicamba in a lactating cow (Residues in meat and milk).

Oehler, D.D. AR-SO. Ivie, G.W. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1980. v. 28 (4). p. 685-689. 11 ref. (NAL Call No.: 381 J8223).

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Metabolism of (14C)sulfamethazine in swine (Meat contamination with drug residues).

Giera, D.D. Sieck, R.F.; Graper, L.K.; Mertz, J.L.; Herberg, R.J. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1982. v. 30 (2). p. 263-266. 11. Includes 4 ref. (NAL Call No.: 381 J8223).

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Methods of chilling and packaging beef, pork and lamb variety meats for transoceanic shipment: Microbiological characteristics.

JFPRDR. Vanderzant, C. Hanna, M.O.; Ehlers, J.G.; Savell, J.W.; Griffin, D.B.; Johnson, D.D.; Smith, G.C.; Stiffler, D.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: The effect of various initial chilling treatments on the numbers and types of microorganisms of beef, pork and lamb tongues and livers packaged either in polyethylene (PE) film or in vacuum packages in Texas and transported fresh-chilled via transoceanic shipment to Antwerp, Belgium, was evaluated. Initial chilling treatments included: cooler-tempered, cooler-chilled freezer-tempered, freezer-chilled, ice-chilled and no prechilling (NPC) before packaging and subsequent refrigerated storage at 2 C. After the initial chilling treatments, the microflora was varied with micrococcus spp. with or without coryneform bacteria being the predominant bacterial types of most samples. After refrigerated storage for 13 to 15 days, lactic acid bacteria became dominant in most vacuum-packaged samples and in pork and lamb samples stored in PE film. Brochotrix thermosphacta and Pseudomonas spp. constituted a greater part of the microflora of beef tongues and livers stored in PE film than that of comparable vacuum-packaged samples. Increases in aerobic plate counts (APC) of refrigerated vacuum-packaged samples nearly always were greatest for samples (NPC) that were not pre-chilled before packaging and usually were smallest for samples that were either freezer-chilled, freezer-tempered or ice-chilled. (author). Journal of food protection. Sept 1985. v. 48 (9). p. 765-769. charts. Includes 8 references. (NAL Call No.: DNAL 44.8 J824).

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Microbial decontamination of calf carcasses by lactic acid sprays.

JFPRDR. Woolthuis, C.H.J. Smulders, F.J.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Literature review. Oct 1985. v. 48 (10). p. 832-837. Includes 56 references. (NAL Call No.: DNAL 44.8 J824).

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Microbial ecology of meat and poultry.

Grau, F.H. Westport, Conn. : AVI Publishing Company. Advances in meat research. Literature review. 1986. v. 2. p. 1-47. Includes references. (NAL Call No.: DNAL TS1960.A33).

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Microbial flora of lamb carcasses stored at 0 degrees C in packs flushed with nitrogen or filled with carbon dioxide.
 JFDAZ. Grau, F.H. Eustace, I.J.; Bill, B.A. Chicago, Ill. : Institute of Food Technologists. Journal of food science. Mar/Apr 1985. v. 50 (2). p. 482-485, 491. Includes references. (NAL Call No.: DNAL 389.8 F7322).

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Microbiological quality of Canadian frozen meat pies.
 JFPRDR. Rayman, K. Weiss, K.F.; Riedel, G.; Jarvis, G. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1986. v. 49 (8). p. 634-638. Includes references. (NAL Call No.: DNAL 44.8 J824).

2623

Microbiological screening tests to detect antibiotic residues in cull dairy cows.
 JFPRDR. Tritschler, J.P. II. Duby, R.T.; Oliver, S.P.; Prange, R.W. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1987. v. 50 (2). p. 97-102. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Microflora recovered from foods on violet red bile agar with and without glucose and incubated at different temperatures (Fresh and frozen foods, meats).
 Oblinger, J.L. Kennedy, J.E. Jr.; Langston, D.M. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1982. v. 45 (10). p. 948-952. 24 ref. (NAL Call No.: 44.8 J824).

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Millipore filtration and use of RV medium for isolation of Salmonella from preenrichment broths.
 JFPRDR. Truscott, R.B. Lammerding, A.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1987. v. 50 (10). p. 815-819. ill. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Miscellaneous pathogenic bacteria in meat and poultry products.
 Bryan, F.L. Westport, Conn. : AVI Publishing Company. Advances in meat research. Literature review. 1986. v. 2. p. 241-275. Includes references. (NAL Call No.: DNAL TS1960.A33).

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A model for risk assessment of organoleptic postmortem inspection procedures for meat and poultry.
 JAVMA. Hathaway, S.C. Pullen, M.M.; McKenzie, A.I. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Apr 1, 1988. v. 192 (7). p. 960-966. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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New rapid test method.
 Leighty, J.C. St. Paul, Minn. : The Institute. Official proceedings : annual meeting - Livestock Conservation Institute. 1986. p. 173-177. (NAL Call No.: DNAL 280.3409 L75A).

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A new screening method for the detection of antibiotic residues in meat and poultry tissues.
 Johnston, R.W. Reamer, R.H.; Harris, E.W.; Fugate, H.G.; Schwab, B. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Nov 1981. v. 44 (11). p. 828-831. 9 ref. (NAL Call No.: 44.8 J824).

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New study adds to antibiotic debate.
 SCIEA. Sun, M. Washington, D.C. : American Association for the Advancement of Science. Science. Nov 16, 1984. v. 226 (4676). p. 818. (NAL Call No.: DNAL 470 SCI2).

2631

Organochlorine and organophosphorus residues in fat of bovine and porcine carcasses marketed in Ontario, Canada from 1969 to 1981 (Beef, pork, pesticide contamination).
 Frank, R. JFPRD. Braun, H.E.; Fleming, G. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1983. v. 46 (10). p. 893-900. Includes references. (NAL Call No.: 44.8 J824).

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Persistence of encysted *Toxoplasma gondii* in tissues of pigs fed oocysts.

AJVRAH. Dubey, J.P. Murrell. K.D.; Fayer, R. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Oct 1984. v. 45 (10). p. 1941-1943. Includes 7 references. (NAL Call No.: DNAL 41.8 AM3A).

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Perspective on potentially fruitful research areas.

Niven, C.F. Jr. Westport, Conn. : AVI Publishing Company. Advances in meat research. 1986. v. 2. p. 397-410. Includes references. (NAL Call No.: DNAL TS1960.A33).

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Playing chicken with food poisoning.

Vara, J. Charolette, Vt. : Camden House Publishing. Harrowsmith. May/June 1987. v. 2 (9). p. 123. ill. (NAL Call No.: DNAL S522.U5H37).

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Porcine stress syndrome.

Marple, D.N. Christian, L.L.; Judge, M.D. West Lafayette, Ind. : The Service, 1978/1985. Pork industry handbook / Purdue University, Cooperative Extension Service. PIH-26, rev., May 1985. 3 p. (NAL Call No.: DNAL SF395.P62).

2636

Prevalence of *Salmonella* and thermophilic *Campylobacter* in fresh pork, beef, veal and poultry in Canada.

JFPRDR. Lammerding, A.M. Garcia, M.M.; Mann, E.D.; Robinson, Y.; Dorward, W.J.; Truscott, R.B.; Tittiger, F. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: A national surveillance program was undertaken in Canada to establish the prevalence and distribution of *Salmonella* and thermophilic *Campylobacter* biotypes in slaughter animals and poultry. During the years 1983 to 1986, samples were collected from federally inspected abattoirs across Canada and tested at regional laboratories. The laboratory isolation procedure for thermophilic *Campylobacter* included selective enrichment and isolates were characterized according to Lior's biotyping scheme. *Salmonella* were isolated from 17.5% pork, 2.6% beef and 4.1% veal carcasses. Thermophilic *Campylobacter* were isolated from 16.9% pork, 22.6% beef and 43.1% veal carcasses. *Salmonella* were isolated from 69.1% turkey and 60.9% chicken carcasses, and thermophilic *Campylobacter* were isolated from 73.7% and 38.2% turkey and chicken carcasses, respectively. *Salmonella typhimurium* was the

most frequently isolated serotype, and predominant in broiler chickens from 1983 to 1985. *Salmonella brandenburg* was predominant in pork, and *Salmonella schwarzengrund* was the primary serotype from turkey carcasses. *Campylobacter jejuni* biotypes I and II were the most frequently isolated biotypes from beef, veal and poultry. Although *Campylobacter coli* biotype I was the predominant thermophilic *Campylobacter* in pork, 41.1% of the biotyped isolates from pork were *C. jejuni* biotypes I and II. (author). Journal of food protection. Jan 1988. v. 51 (1). p. 47-52. charts. Includes 41 references. (NAL Call No.: DNAL 44.8 J824).

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Prevalence of trichinosis in southern Louisiana swine.

AJVRAH. Hugh-Jones, M.E. Stewart, T.B.; Raby, C.; Morrison, J.E.; Isenstein, R.S. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Feb 1985. v. 46 (2). p. 463-465. Includes 10 references. (NAL Call No.: DNAL 41.8 AM3A).

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Psychrotrophic organisms.

Kraft, A.A. Westport, Conn. : AVI Publishing Company. Advances in meat research. 1986. v. 2. p. 191-208. Includes references. (NAL Call No.: DNAL TS1960.A33).

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Public health aspects of toxic heavy metals in animal feeds (Dairy cattle, swine, and laying chickens).

Sharma, R.P. Street, J.C. Schaumburg, Ill., The Association. Journal of the American Veterinary Medical Association. July 15, 1980. v. 177 (2). p. 149-153. ill. 8 ref. (NAL Call No.: 41.8 AM3).

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Qualitative/quantitative determination of (the antibiotic) sulfamethazine in swine tissue by gas chromatographic/electron impact mass spectrometry using a stable isotope labeled internal standard.

Suhre, F.B. Simpson, R.M.; Shafer, J.W. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 727-729. ill. 7 ref. (NAL Call No.: 381 J8223).

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Quality control activities (Production of processed meat and poultry).

Dubbert, W.H. FSQS. Arlington, Va., American Meat Institute Foundation. Proceedings of the Meat Industry Research Conference. 1980. 1980. p. 69-72. (NAL Call No.: TX371.M4).

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Quantitative gas chromatographic-mass spectrometric assay of five sulphonamide residues in animal tissue.

JANCA2. Simpson, R.M. Suhre, F.B.; Shafer, J.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1985. v. 68 (1). p. 23-26. Includes 5 references. (NAL Call No.: DNAL 381 AS7).

2643

RAP: USDA's Residue Avoidance Program (Meat and poultry).

Engel, R.E. Chicago, Ill. : National Live Stock and Meat Board. Proceedings - Annual Reciprocal Meat Conference of the American Meat Science Association. 1983. 1983. (36th). p. 147-150. (NAL Call No.: 50.9 R24).

2644

Rapid estimation of microbial numbers on meat and poultry by the direct epifluorescent filter technique.

JFPRDR. Shaw, B.G. Harding, C.D.; Hudson, W.H.; Farr, L. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1987. v. 50 (8). p. 652-657, 664. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Rapid fluorogenic enumeration of Escherichia coli in selected, naturally contaminated high moisture foods.

JANCA2. Poelma, P.L. Wilson, C.R.; Andrews, W.H. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. Nov/Dec 1987. v. 70 (6). p. 991-993. ill. Includes references. (NAL Call No.: DNAL 381 AS7).

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Re-evaluation of selectivity of malachite green test for presence of sulfite in mechanically deboned poultry.

JANCA2. Mallinson, E.T. III. Curry, K.A.; Corrao, P.A. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Nov/Dec 1985. v. 68 (6). p. 1231-1232. Includes 3 references. (NAL Call

No.: DNAL 381 AS7).

2647

Recovery of Campylobacter jejuni from fresh and frozen meat and poultry collected at slaughter.

Stern, N.J. Green, S.S.; Thaker, N.; Krout, D.J.; Chiu, J. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1984. v. 47 (5). p. 372-374. Includes references. (NAL Call No.: 44.8 J824).

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Recovery of coliphages from chicken, pork sausage and delicatessen meats.

Kennedy, J.E. Jr. Oblinger, J.L.; Bitton, G. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1984. v. 47 (8). p. 623-626. Includes 31 references. (NAL Call No.: 44.8 J824).

2649

Regulatory action to control Trichinella spiralis.

Leighty, Jack C. FOTEA. Chicago : Institute of Food Technologists. Abstract: The US incidence of, regulatory controls by countries outside the US, the source of, and the prevention of human and porcine trichinosis induced by Trichinella spiralis, are reviewed and discussed. Prevention of trichinosis is based on consumer and producer education, the implementation of US regulations, and animal inspection programs. Each of these 3 prevention areas are separately addressed. The enzyme immunoassay testing system, having the required characteristics for trichinella detection, is nearing completion. The assay takes about 25 minutes to perform. If successful, this assay system may make it possible to develop the data base volume needed to essentially eliminate trichinosis as a human health threat and a burden on the pork industry. (wz). Food technology. March 1983. v. 37 (3). p. 95-97. Includes 22 references. (NAL Call No.: 389.8 F7398).

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Residue avoidance in pork production.

Hall, R.F. Princeton Junction, N.J. : Veterinary Learning Systems. The Compendium on continuing education for the practicing veterinarian. Apr 1986. v. 8 (4). p. S200-S208, S213. Includes 10 references. (NAL Call No.: DNAL SF601.C66).

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Residues in colostrum following antibiotic dry cow therapy.

JDSCAE. Oliver, S.P. Duby, R.T.; Prange, R.W.; Tritschler, J.P. II. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Dec 1984. v. 67 (12). p. 3081-3084. Includes 18 references. (NAL Call No.: DNAL 44.8 J822).

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Residues in dairy cows following antibiotic administration.

Oliver, S.P. Duby, R.T.; Tritschler, J.P. II; Prange, R.W. Washington, D.C. : The Council. Annual meeting - National Mastitis Council, Inc. 1984. (23rd). p. 125-132. Includes references. (NAL Call No.: DNAL SF967.M3N32).

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Residues in young veal calves after consumption of milk containing penicillin.

JDSCAE. Prange, R.W. Oliver, S.P.; Duby, R.T.; Tritschler, J.P. II. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Dec 1984. v. 67 (12). p. 2970-2973. Includes 16 references. (NAL Call No.: DNAL 44.8 J822).

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Residues of the plant growth regulator mefluidide

(N-(2,4-dimethyl-5-(((trifluoromethyl)sulfonyl)-amino)phenyl)acetamide) in the milk and tissues of lactating dairy cows: a 28-day feeding study.

Clark, D.E. Coppock, C.E.; Ivie, G.W. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1981. v. 29 (6). p. 1175-1179. 10 ref. (NAL Call No.: 381 J8223).

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Retrospective study of four years of carcass condemnation rates for malignant lymphoma in California cows.

AJVRAH. Thurmond, M.C. Lapuz, G.R.; Farver, T.B.; Mandac, G.C. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. June 1985. v. 46 (6). p. 1387-1391. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Return to the jungle : how the Reagan administration is imperiling the nation's meat and poultry inspection program / by Kathleen Hughes ; foreward (sic) by Ralph Nader. -.

Hughes, Kathleen. Washington, D.C. Center for Study of Responsive Law c1983. vi, 63 p. ; 28 cm. (NAL Call No.: KF1911.5.Z9H83).

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The role of color in lighting for meat and poultry inspection / Belinda L. Collins, James A. Worthey. -.

Collins, Belinda L. Worthey, James A. Washington, D.C. U.S. Dept. of Commerce, National Bureau of Standards 1984. "NBSIR 84-2829. ~"PB84-177823. ~"March 1984. ~"Sponsored by the U.S. Department of Agriculture." x, 77 p. : ill. ; 28 cm. Bibliography: p. 75-77. (NAL Call No.: TS1975.C59).

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Salmonella.

Silliker, J.H. Gabis, D.A. Westport, Conn. : AVI Publishing Company. Advances in meat research. Literature review. 1986. v. 2. p. 209-229. Includes references. (NAL Call No.: DNAL TS1960.A33).

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Salmonella in swine at slaughter: incidence and serovar distribution at different seasons.

JFPRDR. Currier, M. Singleton, M.; Lee, J.; Lee, D.R. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1986. v. 49 (5). p. 366-368. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Salmonellosis.

Wilcock, B.P. Ames, Iowa : Iowa State University Press, 1986. Diseases of swine / edited by A.D. Leman ... et al. ; with 99 authoritative contributors selected for their recognized leadership in this field. Literature review. p. 508-520. ill. Includes references. (NAL Call No.: DNAL SF971.D8 1986).

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Serum and urine as predictors of sulfamethazine levels in swine muscle, liver and kidney.

JFPRDR. Randecker, V.W. Reagan, J.A.; Engel, R.E.; Soderberg, D.L.; McNeal, J.E. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1987. v. 50 (2). p. 115-122.

Includes references. (NAL Call No.: DNAL 44.8 J824).

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Staphylococci.

Evans, J.B. Westport, Conn. : AVI Publishing Company. Advances in meat research. 1986. v. 2. p. 231-239. Includes references. (NAL Call No.: DNAL TS1960.A33).

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Staphylococcus aureus growth and toxin production in nitrogen-packed sandwiches (Plastic-enclosed sausage, hamburger and turkey).

Bennett, R.W. Ames, W.T. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1982. v. 45 (2). p. 157-161. ill. Includes 20 ref. (NAL Call No.: 44.8 J824).

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Substrates used by Brochothrix thermosphacta when growing on meat.

JFPRDR. Grau, F.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1988. v. 51 (8). p. 639-642. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Sulfa residues: a producer problem?

Hollis, G.R. Bane, D.P. Urbana, The Service. Veterinary professional topics. Swine - Illinois University, Cooperative Extension Service. 1986. v. 12 (1). p. 1-5. (NAL Call No.: DNAL SF971.V4).

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Sulfonamide residues in bob-veal calves.

JAVMA4. Kandra, K.A. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. July 1, 1985. v. 187 (1). p. 26-27. (NAL Call No.: DNAL 41.8 AM3).

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Sulfonamide residues in swine.

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Survival of Campylobacter jejuni at different temperatures in broth, beef, chicken and cod supplemented with sodium chloride.

JFPRDR. Abram, D.D. Potter, N.N. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1984. v. 47 (10). p. 795-800. Includes 21 references. (NAL Call No.: DNAL 44.8 J824).

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Swine trichinosis in New England slaughterhouses.

AJVRH. Schad, G.A. Leiby, D.A.; Duffy, C.H.; Murrell, K.D. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Sept 1985. v. 46 (9). p. 2008-2010. Includes 12 references. (NAL Call No.: DNAL 41.8 AM3A).

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(FOOD CONTAMINATION, LIVESTOCK)

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Testing and marketing trichina-free pork.
Fetterman, L.M. Madison, Wis. : The Institute.
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Livestock Conservation Institute. 1987. p.
10-12. ill. (NAL Call No.: DNAL 280.3409 L75A).

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Testing for trichinosis.
SCIEA. Kolata, G. Washington, D.C. : American
Association for the Advancement of Science.
Abstract: A USDA-supported enzyme-linked
immunosorbent assay method for the rapid
detection of trichinosis in pork is discussed.
The method is based on the selective detection
of antibodies in sera from *Trichinella*-infected
pigs by isolated *Trichinella* antigens.
Applications of this test to 1300
Trichinella-free pigs gave results that were
100% negative, and with intentionally infected
pigs, 100% positive after day 24 of the induced
infection. Finally, USDA use of the new method
in the testing of pigs that were positive by an
older, more elaborate test showed 100%
confirmation incidence. The US pork industry
would like to use this new method to certify
Trichinella-free pork, which it feels will
increase US pork exports by one-third and
increase domestic demand by 2% for a total
return of an estimated \$449 million in the
first year of testing. (wz). Science. Feb 8,
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No.: DNAL 470 SC12).

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**Tissue iodine in sheep fed diets containing
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JFPRDR. Wagner, D.D. Bradley, B.D.; Alderson,
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Association of Milk, Food, and Environmental
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**Toxicologic studies with lambs fed sugar beets
grown on municipal sludge-amended soil: lowered
relative hemoglobin in red blood cells and
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AUVRAH. Telford, J.N. Babish, J.G.; Dunham,
P.B.; Hogue, D.E.; Miller, K.W.; Stoewsand,
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41.8 AM3A).

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**Translocation of lead and cadmium from feed to
edible tissues of swine (Pork).**
Sharma, R.P. JFSAD. Street, J.C.; Shupe, J.L.
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DNAL SF395.P62).

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Trichinosis in the United States--1947-1981.
Schantz, Peter M. FOTEA. Chicago : Institute of
Food Technologists. Abstract: Survey data on US
trichinosis incidence since 1967 are presented
and discussed relative to morbidity, mortality,
geographic distribution of trichinosis
incidence, patient age and sex, and sources of
infection. In the period 1976-80, the greatest
incidences of trichinosis have been in Alaska,
New Jersey, Rhode Island, Louisiana, and New
York City, with 16 states showing no
trichinosis incidence during the period. This
disease is attributed to eating pork from hogs
purchased directly from farms, and consuming
ethnic dishes calling for raw or
partially-cooked pork. The need for an
adequately strong federal policy for effective
swine management practices to reduce
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William A. Moats. 1986. (320). p. 137-141. (NAL
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nutritious.**
Paul, D.L. Washington, D.C. : The Association
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Poultry from Farm to Table and the National
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USDA adopts final rules for listing official establishment numbers (Meat and poultry inspection regulations).

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USDA expands testing for antibiotics at the slaughterhouse (meat and poultry carcasses inspection, residues).

Washington, The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Sept 17/24, 1982. Sept 17/24, 1982. p. 19-20. (NAL Call No.: aS21.A8U51).

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USDA inaugurates new program to modernize meat and poultry inspection in 3 plants (Secretary of Agriculture Bob Bergland).

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USDA monitors radiation of food imports.

Denver, Colo. : American School Food Service Association. Abstract: As part of its efforts to ensure that all meat sold in commerce is safe and wholesome, the USDA has taken steps to monitor meat and poultry products from countries affected by the nuclear accident at Chernobyl. These steps are reviewed. (jd-b). School foodservice journal. Aug 1986. v. 40 (6). p. 36. ill. (NAL Call No.: DNAL 389.8 SCH6).

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USDA regulation of residues in meat and poultry products.

JANSAG. Cordle, M.K. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1988. v. 66 (2). p. 413-433. maps. Includes references. (NAL Call No.: DNAL 49 J82).

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USDA to begin using new tests to detect sulfa residues (in meat and poultry).

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Ellis, H.D. Ames, Iowa : Iowa State University Press, 1986. Practices in veterinary public health and preventive medicine in the United States / edited by George T. Woods. p. 25-31. Includes references. (NAL Call No.: DNAL SF623.P73 1986).

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Veterinary terms: why swine carcasses are trimmed or condemned (Diseases, contamination).

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Aldehydes in poultry chiller water.

POSCAL. Tsai, L.S. Mapes, C.J.; Huxsoll, C.C. Champaign, Ill. : Poultry Science Association. Poultry science. June 1987. v. 66 (6). p. 983-989. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Analytical errors resulting from nitrate contamination of filter paper (in cured meats).

Muneta, P. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. July 1980. v. 63 (4). p. 937-938. 5 ref. (NAL Call No.: 381 AS7).

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Animal feeding study for irradiated sterilized chicken / submitted to U.S. Army Medical Research and Development Command by Research 900 Laboratories, Ralston Purina Co. -.

Thomson, G. M.; Dahlgren, R. R.; Ronning, D. C. St. Louis, Mo. Research 900 1976-1980. Consists of the first through fifteenth quarterly reports of the project ~Study continued by Raltech Scientific Services which changed its name from Research 900 Laboratories in 1978 ~First five reports submitted by G.M. Thomson, subsequent reports submitted by R.R. Dahlgren and D.C. Ronning ~"Contract no. DAMD17-76-C-6047." 41 v. : ill. (some col.) ; 30 cm. (NAL Call No.: TX556.P9A55).

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Animal feeding study for irradiation sterilized chicken : a chronic toxicity, oncogenicity, and multigeneration reproductive study using CD-1 mice to evaluate the wholesomeness of frozen, thermally sterilized, Cobalt-60 irradiated, and 10MeV electron irradiated chicken meat : draft final report / submitted to U.S. Department of Agriculture as part of contract 3-3K06-1-29 by Ralston Purina Company. -.

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Animal feeding study protocol for irradiation sterilized chicken. --.

Washington, D.C. Office for Wholesomeness of Irradiated Foods, US Army Medical Research & Development Command, 1975? . "17 Jun 1975." 1 v. (various foliations) ; 27 cm. Includes bibliographies. (NAL Call No.: DNAL TX556.P9A54).

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Antibotulinal effectiveness of nisin-nitrite combinations in culture medium and chicken frankfurter emulsions.

JFPRDR. Taylor, S.L. Somers, E.B.; Krueger, L.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Mar 1985. v. 48 (3). p. 234-239. ill. Includes 23 references. (NAL Call No.: DNAL 44.8 J824).

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Antimicrobial activity of butylated hydroxyanisole and potassium sorbate against natural microflora in raw turkey meat and Salmonella typhimurium in cooked turkey meat.

Morad, M.M. Granen, A.L.; Brekke, C.J. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1982. v. 45 (11). p. 1038-1040. 10 ref. (NAL Call No.: 44.8 J824).

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Antimicrobial activity of compounds containing active chlorine in the presence of egg solids.

Moats, W.A. AR-BARC. Champaign, Ill., Poultry Science Association. Poultry science. July 1980. v. 59 (7). p. 1641. (NAL Call No.: 47.8 AM33P).

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Antimicrobial properties of lauricidin in mechanically deboned chicken, minced fish and chicken sausage.

Baker, R.C. JFSAD. Poon, W.; Kline, D.; Vadehra, D.V. Westport : Food & Nutrition Press. Journal of food safety. 1982. v. 4 (3). p. 177-184. 18 ref. (NAL Call No.: TP373.5.J62).

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Antioxidant control of rancidity development in ground turkey meat.

Olson, V.M. Stadelman, W.J. Champaign, Ill., Poultry Science Association. Poultry science. Dec 1980. v. 59 (12). p. 2733-2737. ill. 9 ref. (NAL Call No.: 47.8 AM33P).

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Assessment of Salmonella contamination in poultry--past, present, and future.

POSCAL. Dubbert, W.H. Champaign, Ill. : Poultry Science Association. Poultry science. June 1988. v. 67 (6). p. 944-949. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Association of Campylobacter jejuni with laying hens and eggs.

Doyle, M.P. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. Mar 1984. v. 47 (3). p. 533-536. Includes references. (NAL Call No.: 448.3 AP5).

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Atmospheric ammonia and incidence of blood spots in eggs.

POSCAL. Deaton, J.W. Reece, F.N.; Thornberry, F.D. Champaign, Ill. : Poultry Science Association. Poultry science. July 1986. v. 65 (7). p. 1427-1428. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Attachment of Salmonella spp. to chicken muscle surfaces.

Thomas, C.J. McMeekin, T.A. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. July 1981. v. 42 (1). p. 133-134. ill. Bibliography p. 133-134. (NAL Call No.: 448.3 AP5).

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Avoiding salmonella infections.

Mast, M.G. Philadelphia, Pa. : George F. Stickley Company. Abstract: A brief technical report describes the prevalence and causes of salmonellosis. The growing incidence of poultry contamination with salmonella is noted. Practical guidelines are given to reduce problems in food handling that cause recontamination. It is concluded that protection can be achieved by following these guidelines.(wz). Nutrition forum. Nov 1987. v.

4 (11). p. 88. (NAL Call No.: DNAL TX341.N877).

2709

Bacteria-laden meat: who is to blame?.

Washington, D.C. : Community Nutrition Institute. Abstract: A brief report discusses the responsibilities of the US regulatory meat and poultry inspection system and of retail food stores and consumers for preventing the consumption of meat and poultry contaminated with bacteria. Changes in the inspection system and cost-effective inspection models also are discussed. Six specific recommendations are appended for preventing bacterial contamination in meat and poultry. These include the imposition of severe penalties by USDA for the use of contaminated animal feeds, the establishment of national animal husbandry sanitation standards, improved processing quality methods to prevent cross-contamination, development of a more active national surveillance system for documenting foodborne illness, and consumer education.(wz). Nutrition week. Apr 9, 1987. v. 17 (15). p. 4-5. (NAL Call No.: DNAL TX341.C6).

2710

Bacterial cell characteristics and conditions influencing their adhesion to poultry skin.

JFPRDR. Lillard, H.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Conflicting reports appear in the literature regarding attachment of flagellated and nonflagellated bacteria to poultry skin. The following parameters which may influence bacterial attachment were examined: (a) sample type and size; (b) skin from fully processed and scalded but uneviscerated broilers; (c) skin from hard- and soft-scalded broilers; and (d) potentially variable tap rinse and constant pressure spray wash (50 psi). Gram-positive and gram-negative, flagellated and nonflagellated bacteria were used in suspension fluids (Salmonella typhimurium, Salmonella gallinarum, Proteus vulgaris, Pseudomonas fluorescens, Clostridium perfringens, Staphylococcus aureus and a nonflagellated species of Micrococcus). Results showed that none of the variables tested affected the ability of bacteria to adhere to poultry skin on 0.25 min. All species tested adhered to skin, and there was a generally linear increase in rate of attachment time (0.25 to 60 min) following exposure of poultry skin to suspending fluid. It was concluded that nonflagellated bacteria attach as readily as flagellated bacteria under the same controlled conditions. (author). Journal of food protection. Sept 1985. v. 48 (9). p. 803-807. ill., charts. Includes 15 references. (NAL Call No.: DNAL 44.8 J824).

(FOOD CONTAMINATION, POULTRY)

2711

Bacteriological evaluation of alkali-extracted protein from poultry residues (Deboning waste).
Jackson, E.D. Consolacion, F.I.; Jelen, P.
Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1982. v. 45 (9). p. 797-800, 805. ill. 18 ref. (NAL Call No.: 44.8 J824).

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Behavior of enterococci in egg processing operations.

Imai, C. Champaign, Ill., Poultry Science Association. Poultry science. Aug 1980. v. 59 (8). p. 1767-1772. ill. 12 ref. (NAL Call No.: 47.8 AM33P).

2713

Bioluminescent ATP assay for rapid estimation of microbial numbers in fresh meat.

JFPRDR. Littell, K.J. Pikelis, S.; Spurgash, A.
Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1986 v. 49 (1). p. 18-22. Includes 20 references. (NAL Call No.: DNAL 44.8 J824).

2714

Broiler chickens as potential source of Campylobacter infections in humans.

Grant, I.H. Richardson, N.J.; Bokkenheuser, V.D. Washington, D.C., American Society for Microbiology. Journal of clinical microbiology. May 1980. v. 11 (5). p. 508-510. 14 ref. (NAL Call No.: QR46.J6).

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Broiler condemnations Geographical and seasonal differences and their impact on broiler production /by Conrado M. Gempesaw II and Kris Tina Gulczynski.

Gempesaw, Conrado M. Newark, Del. : Agricultural Experiment Station, University of Delaware, 1987. "August 1987.". 29 p. ; 28 cm. Bibliography: p. 19-20. (NAL Call No.: DNAL 100 D37S (1) no.469).

2716

Campylobacter fetus subsp. jejuni in a turkey processing plant (Zoonoses).

Luechtefeld, N.W. Wang, W.L.L. Washington, D.C., American Society for Microbiology. Journal of clinical microbiology. Feb 1981. v. 13 (2). p. 266-268. 23 ref. (NAL Call No.: QR46.J6).

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Campylobacter jejuni.

Gravani, R.B. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Nov 1986. v. 6 (11). p. 509-510. (NAL Call No.: DNAL SF221.D342).

2718

Campylobacter jejuni in vacuum packaged processed turkey.

JFPRDR. Reynolds, G.N. Draughon, F.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1987. v. 50 (4). p. 300-304. Includes references. (NAL Call No.: DNAL 44.8 J824).

2719

Campylobacter jejuni infection on poultry farms and its effect on poultry.

JFPRDR. Genigeorgis, C. Hassuneh, M.; Collins, P. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: In 1984, we monitored 4 ranches with a total of 24 houses (15,000-20,000 birds/house) for 3 consecutive generations (January-August). On epidemiologic grounds, infection of birds did not originate at the hatcheries or the central water and feed. Considering all lots of birds, the infection rate increased from 2.3 per cent by the 10th day to 9.5, 29.7, 47.9, 65.7, 78.6 and 81.8 per cent by the 20th, 30th, 40th, 45th, 50th day and at slaughter times, respectively. Transmission from one generation of chickens to the next via the old litter is suspected, but not proven microbiologically. A 5-log reduction of Campylobacter jejuni was shown in experimentally inoculated litters stored at 17 and 30 degrees C for 6 d and 8 degrees C for 11 d. The houses remained empty for 9-29 d before being filled with new chicks. Carrier flocks contaminated the slaughterhouse equipment to such an extent that negative flocks processed afterwards resulted in contaminated meat. Lack of effective sanitation at the end of the day contributed to the contamination of meat from Campylobacter-free birds processed the next day. Feather picker drip water was positive 94 per cent of the sampling times at levels of log₁₀ 3.4 (1.0-4.7). Scalding temperatures did not affect the level of contamination in the finished products (P more than 0.2). An ELISA based on heatstable antigens was adapted for the detection of circulating antibodies. Of 56 broilers aged 50 to 68 d, only 2 (3.5 per cent) 68 d old with log₁₀ 5.4 C. jejuni/g of feces were considered as positive. Birds considered negative harbored C. jejuni in their ceca at levels of log₁₀ 2.0 to 5.4/g of feces. Five out of 6 (83 per cent) 18 month-old hens were considered as positive. Yet, none of these birds were found carrying C. jejuni in their feathers or ceca.(author). Journal of food protection. Nov 1986. v. 49 (11). p. 895-903. ill., charts. Includes 49 references. (NAL Call

No.: DNAL 44.8 J824).

2720

Carbon-14-ochratoxin A distribution in the Japanese quail (*Coturnix coturnix japonica*) monitored by whole body autoradiography.
 POSCAL. Fuchs, R. Appelgren, L.E.; Hagelberg, S.; Hult, K. Champaign, Ill. : Poultry Science Association. Poultry science. May 1988. v. 67 (5). p. 707-714. ill. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2721

Changes in bacterial cell and spore counts of reduced-fat egg products as influenced by pasteurization and spray drying.
 JFPRDR. Moore, K.J. Warren, M.W.; Davis, D.R.; Johnson, M.G. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1988. v. 51 (7). p. 565-568, 575. Includes references. (NAL Call No.: DNAL 44.8 J824).

2722

Changes in the ultrastructure of egg yolk by the growth of *Streptococcus faecalis* var *liquefaciens*.
 Gravani, R.B. JFDSA. Vadehra, D.V.; Hood, L.F.; Baker, R.C. Chicago : Institute of Food Technologists. Journal of food science. Sept/Oct 1982. v. 47 (5). p. 1435-1437. ill. Includes references. (NAL Call No.: 389.8 F7322).

2723

Changes underway to correct inadequacies in Florida's Meat and Poultry Inspection Program : report to the Honorable Lawton Chiles, United States Senate / by the U.S. General Accounting Office. -.
 United States ~ General Accounting Office. (Washington, D.C.) The Office ; for sale by Supt. of Docs., U.S.G.P.O. 1982. Cover title ~"December 30, 1982. ~"GAD/RCED-83-70. ~"B-210209.". iv, 33 p. ; 28 cm. (NAL Call No.: HD9410.9.U5U52).

2724

Chemical composition of the chalazae and their deterioration during storage of eggs.
 Sato, Y. Kato, T. Champaign, Ill., Poultry Science Association. Poultry science. July 1980. v. 59 (7). p. 1416-1422. ill. 17 ref. (NAL Call No.: 47.8 AM33P).

2725

Chlorinated dibenzo-p-dioxins, chlorinated dibenzofurans, and pentachlorophenol in Canadian chicken and pork samples.
 JAFCAU. Ryan, J.J. Lizotte, R.; Sakuma, T.; Mori, B. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1985. v. 33 (6). p. 1021-1026. Includes references. (NAL Call No.: DNAL 381 J8223).

2726

Chlorine spray washing to reduce bacterial contamination of poultry processing equipment.
 POSCAL. Bailey, J.S. Thomson, J.E.; Cox, N.A.; Shakelford, A.D. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1120-1123. ill. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2727

A chronic toxicity, oncogenicity, and multigeneration reproductive study using CD-1 mice to evaluate frozen, thermally sterilized, cobalt-60 irradiated, and 10 Mev electron irradiated chicken meat submitted by Ralston Purina Company to U.S. Department of Agriculture, Agricultural Research Service, Eastern Regional Research Center ... in partial fulfillment of Contract 53-3K06-1-29, Animal feeding study for irradiation sterilized chicken ; (Contributors D.C. Ronning ... (et al.)). -.
 Ronning, Danny C. & Animal feeding study for irradiation sterilized chicken; (microform). St. Louis, Mo. The Company 1983. Final report June 1, 1976 to June 1983 ~Contract nos. DAMD 17-76-C-6047, USDA 53-3K06-1-29; Project no. 1402-20820-029. Performing organization report no. ERRC-ARS 41-54 ~Project sponsored by Eastern Regional Research Center, ARS, USDA ~"Consists of 14 volumes. V.1 contains the text of the report. The remaining vols. 2-14 contain the experimental values. The protocol for the study is not described and reference must be made to the protocol, "Animal feeding study protocol for irradiation sterilized test foods" submitted to FDA March 1984. 14 v. : ill. Bibliography: p. 112-113 (v. 1). (NAL Call No.: Fiche 151).

2728

Classification of bacteria from commercial egg washers and washed and unwashed eggs.
 Moats, W.A. AR-BARC. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Oct 1980. v. 40 (4). p. 710-714. 24 ref. (NAL Call No.: 448.3 AP5).

2729

Classification of *Lactobacillus divergens*, *Lactobacillus piscicola*, and some catalase-negative, asporogenous, rod-shaped bacteria from poultry in a new genus, *carnobacterium*.
IUSBA8. Collins, M.D. Farrow, J.A.E.; Phillips, B.A.; Ferusu, S.; Jones, D. Washington, D.C. : International Union of Microbiological Societies. International journal of systematic bacteriology. Oct 1987. v. 37 (4). p. 310-316. Includes references. (NAL Call No.: DNAL 448.3 IN8).

2730

Comparison of brands of media for isolating bacteria from poultry, beef and shrimp.
Lillard, H.S. Cox, N.A.; Bailey, J.S.; Thomson, J.E. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1984. v. 47 (5). p. 394-397. Includes references. (NAL Call No.: 44.8 J824).

2731

Comparison of gas chromatographic/mass spectrometric and liquid chromatographic/mass spectrometric methods for confirmation of coumaphos and its oxygen analog in eggs and milk (Insecticides).
White, K.D. JANCA. Min, Z.; Brumley, W.C.; Krause, R.T.; Sphon, J.A. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Nov 1983. v. 66 (6). p. 1358-1364. ill. Includes references. (NAL Call No.: 381 AS7).

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Comparison of sampling methods and implications for bacterial decontamination of poultry carcasses by rinsing.
JFPRDR. Lillard, H.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1988. v. 51 (5). p. 405-408. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Comparison of sampling methods for *Escherichia coli* and total aerobic counts on broiler carcasses (Poultry meat).
Lillard, H.S. JFPRD. Thomson, J.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1983. v. 46 (9). p. 781-782. Includes references. (NAL Call No.: 44.8 J824).

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Comparison of volatiles produced by selected pseudomonads on chicken skin (Spoilage organisms).
Bowman, E.V. JFDSA. Freeman, L.R.; Later, D.W.; Lee, M.L. Chicago : Institute of Food Technologists. Journal of food science. July/Aug 1983. v. 48 (4). p. 1358-1359. Includes references. (NAL Call No.: 389.8 F7322).

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Competitive growth of chicken skin microflora and *Clostridium botulinum* type E after an irradiation dose of 0.3 Mrad.
Firstenberg-Eden, R. JFPRD. Rowley, D.B.; Shattuck, G.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Jan 1983. v. 46 (1). p. 12-15. ill. Includes references. (NAL Call No.: 44.8 J824).

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A comprehensive compendium of chicken drugs /by Stephen F. Sundlof, J. Edmond Riviere, Arthur L. Craigmill.
Sundlof, Stephen Frederick, 1951-. Riviere, J. Edmond.; Craigmill, Arthur L. Gainesville, Fla. : Institute of Food and Agricultural Sciences, University of Florida, c1988. Cover title: Chicken drugs.~ "FARAD."~ Information from the Food animal residue avoidance databank, trade name file.~ Includes indexes. x, 261 p. ; 28 cm. (NAL Call No.: DNAL RA1270.F4S98).

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A comprehensive compendium of turkey drugs /by Stephen F. Sundlof, J. Edmond Riviere, Arthur L. Craigmill.
Sundlof, Stephen Frederick, 1951-. Riviere, J. Edmond.; Craigmill, Arthur L. Gainesville, Fla. : Institute of Food and Agricultural Sciences, University of Florida, c1988. Cover title: Turkey drugs.~ "FARAD."~ Information from the Food animal residue avoidance databank, trade name file.~ Includes index. x, 96 p. ; 28 cm. (NAL Call No.: DNAL RA1270.F4S95).

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Concentration of nitrate and nitrite in raw turkey breast meat and the microbial conversion of added nitrate to nitrite in tumbled turkey breast meat.
POSCAL. Ahn, D.U. Maurer, A.J. Champaign, Ill. : Poultry Science Association. Poultry science. Dec 1987. v. 66 (12). p. 1957-1960. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Contamination and decontamination of poultry carcass neck tissue.

McMeekin, T.A. Thomas, C.J.; Pennington, P.I. Westport, Conn. : Food & Nutrition Press. Journal of food safety. 1984. v. 6 (2). p. 79-88. ill. Includes references. (NAL Call No.: TP373.5.J62).

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Contamination of broiler carcass skin during commercial processing procedures: an electron microscopic study.

Thomas, C.J. McMeekin, T.A. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. July 1980. v. 40 (1). p. 133-144. ill. 44 ref. (NAL Call No.: 448.3 AP5).

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Contamination of poultry during processing.

Bailey, J.S. Thomson, J.E.; Cox, N.A. Orlando : Academic Press, 1987. Abstract: The normal microbial flora of poultry entering the processing plant and those processing operations which most influence the final microbiological quality of fresh poultry are discussed. Processing operations may result in cross-contamination by bird-to-bird contact, handling of carcasses, contact with processing equipment, tools, or the water bath of the scald and chill tanks. It is believed that good sanitation practices of poultry processors will minimize cross-contamination, and the resulting carcass will have an adequate shelf life to satisfy both the processor and the consumer. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 193-211. charts. Includes 114 references. (NAL Call No.: DNAL QR117.M5).

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Contamination on the shells of eggs that are used in orange juice and sold in the streets.

39EJA. Villegas, T.V. Paz, R.A.; Flores, A. Davis : University of California. Proceedings - Western Poultry Disease Conference. 1987. (36th). p. 159. (NAL Call No.: DNAL SF995.W4).

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Control of two major pathogens on fresh poultry using a combination potassium (sic) sorbate/carbon dioxide packaging treatment.

Gray, R.J.H. Elliott, P.H.; Tomlins, R.I. Chicago, Ill. : Institute of Food Technologists. Abstract: A study evaluated the effectiveness of a combination potassium sorbate and modified atmosphere packaging treatment in inhibiting *Salmonella enteritidis* and *Staphylococcus aureus* bacteria. These bacteria were inoculated onto fresh chicken

thighs and stored at 10 degrees C for 10 days. The storage conditions simulated poor bacterial control conditions. The samples were inoculated, dipped in sorbate solution, and packaged in Nylon/Plexar/Surlyn bags, prior to storage. Of the 2 bacteria, *S. enteritidis* was found to be more sensitive to sorbate dipping, while *S. aureus* growth was inhibited best by high levels of CO₂. Combined use of dipping solutions having higher sorbate, and packaging atmospheres having higher CO₂ effectively inhibited the growth of both bacteria species on the chicken thighs. (wz). Journal of food science. Jan/Feb 1984. v. 49 (1). p. 142-145, 179. ill., charts. Includes 14 references. (NAL Call No.: 389.8 F7322).

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A convenient surface plate method for bacteriological examination of poultry.

Thomas, Y.O. Lulves, W.J.; Kraft, A.A. Chicago, Institute of Food Technologists. Journal of food science. Nov/Dec 1981. v. 46 (6). p. 1951-1952. ill. Includes 7 ref. (NAL Call No.: 389.8 F7322).

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Cook/chill foodservice system with a microwave oven: coliforms and aerobic counts from turkey rolls and slices.

JFPRDR. Ollinger-Snyder, P.A. Matthews, M.E. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1988. v. 51 (2). p. 84-86. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Cryo-scanning electron microscopy of microorganisms in a liquid film on spoiled chicken skin.

FMICDK. McMeekin, T.A. McCall, D.; Thomas, C.J. AMF O'Hare, Ill. : Scanning Electron Microscopy, Inc. Food microstructure. 1986. v. 5 (1). p. 77-82. ill. Includes references. (NAL Call No.: DNAL TX543.F66).

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Danger lurks in your supermarket meat cases.

JAVMA. Menning, E.L. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Feb 15, 1988. v. 192 (4). p. 494-497. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Dehydrochlorination of some organochlorine pesticides in freeze-dried egg and egg fat during storage.

Hill, A.R. Smart, N.A. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1981. v. 29 (3). p. 675-677. 11 ref. (NAL Call No.: 381 J8223).

2749

Detection and occurrence of pentachlorophenol residues in chicken liver and fat.

JPFCD2. Neidert, E. Saschenbrecker, P.W.; Patterson, J.R. New York, N.Y. : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1984. v. 19 (7). p. 579-592. Includes references. (NAL Call No.: DNAL TD172.J61).

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Detection of chloroform in the tissues of freshly eviscerated poultry carcasses exposed to water containing added chlorine or chlorine dioxide (Processing water).

Robinson, D. Mead, G.C.; Barnes, K.A. New York, Springer. Bulletin of environmental contamination and toxicology. Aug 1981. v. 27 (2). p. 145-150. 10 ref. (NAL Call No.: RA1270.P35A1).

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Detection of spoiled eggs using a new type of inspection apparatus.

Imai, C.POSCA. Saito, J. Champaign : Poultry Science Association. Poultry science. Feb 1983. v. 62 (2). p. 331-337. Includes references. (NAL Call No.: 47.8 AM33P).

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Determination of aflatoxicol and aflatoxins B1 and M1 in eggs.

Trucksess, M.W. Stoloff, L. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Mar/Apr 1984. v. 67 (2). p. 317-320. ill. Includes references. (NAL Call No.: 381 AS7).

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Determination of aflatoxins in animal tissues (Beef, swine, chicken).

Stubblefield, R.D. Shotwell, O.L. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. July 1981. v. 64 (4). p. 964-968. ill. 13 ref. (NAL Call No.: 381 AS7).

2754

Determination of coumaphos and its oxygen analog in eggs and milk by using a multiresidue method with liquid chromatographic quantitation and capillary gas chromatographic/mass spectrometric confirmation (Insecticides).

Krause, R.T.JANCA. Min, Z.; Shotkin, S.H. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Nov 1983. v. 66 (6). p. 1353-1357. Includes references. (NAL Call No.: 381 AS7).

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Determination of furazolidone in eggs by high-performance liquid chromatography.

JAFCAU. Botsoglou, N.A. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1988. v. 36 (6). p. 1224-1227. Includes references. (NAL Call No.: DNAL 381 J8223).

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Determination of neomycin in animal tissues, using ion-pair liquid chromatography with fluorometric detection.

JANCA2. Shaikh, B. Allen, E.H.; Gridley, J.C. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1985. v. 68 (1). p. 29-36. Includes 26 references. (NAL Call No.: DNAL 381 AS7).

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Determination of penicillin G, ampicillin, and cephalixin residues in tissues (of food-producing animals, antibiotics).

Vilim, A.B.JANCA. Larocque, L. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Jan 1983. v. 66 (1). p. 176-179. 3 ref. (NAL Call No.: 381 AS7).

2758

Development of USDA-FSIS method for isolation of Listeria monocytogenes from raw meat and poultry.

JANCA2. McClain, D. Lee, W.H. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Paper presented at workshop on Listeria Methodology, 101st AOAC Annual International Meeting, Sept. 14/17, 1987, San Francisco. May/June 1988. v. 71 (3). p. 660-664. ill. Includes references. (NAL Call No.: DNAL 381 AS7).

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Disappearance of organochlorine residues from abdominal and egg fats of chickens, Ontario, Canada, 1969-1982.

JANCA2. Frank, R. Rasper, J.; Braun, H.E.; Ashton, G. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1985. v. 68 (1). p. 124-129. Includes 10 references. (NAL Call No.: DNAL 381 AS7).

2760

Distribution of "attached" Salmonella typhimurium cells between poultry skin and a surface film following water immersion.

JFPRDR. Lillard, H.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Poultry skin was immersed in a saline solution (0.85 per cent) containing 10(8) Salmonella typhimurium/ml. After 0.25 min, 95 per cent of the water uptake was in a surface film and 5 per cent in the skin. After immersion for 30 and 60 min, a significant increase in total water uptake occurred at each immersion time. A significant increase in the surface film occurred after 30 min of immersion, but not from 30 to 60 min. After 0.25 min of immersion, 94 per cent of bacterial cells was entrapped in the water film and 6 per cent was on the skin. As immersion time increased, the percentage of bacteria in the surface film decreased, whereas the percentage on the skin increased. After 60 min of immersion, about 39 per cent of bacterial cells was in the surface film and 61 per cent was on the skin. These data indicate a possible transfer of water and bacteria from surface film to skin during prolonged water immersion. Preventing the formation of the surface film by altering surface tension may reduce carcass contamination during immersion processes. (author). Journal of food protection. June 1986. v. 49 (6). p. 449-454. ill., charts. Includes 8 references. (NAL Call No.: DNAL 44.8 J824).

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Dominant lethal study : final report / submitted to: U.S. Department of Agriculture, R.B. Russel (i.e. Russell) Research Center, to meet the requirements of contract 53-3K06-29 ; by Raltech Scientific Services. -.

St. Louis, Mo. Raltech Scientific Services 1981. "7 June 1978 to 28 November 1978, conducted to meet requirements of contract DAMD17-76-C-6047, specified in the Animal feeding study protocol for irradiation sterilized test foods, dated 21 October 1975. ~"ERRC-ARS 68. ~"March 1981." iii, 31, 6, 33, 26 p. ; 28 cm. Bibliography: p. 20. (NAL Call No.: TX556.P9D64).

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Drug and chemical residues in the edible tissues of animals.

Booth, N.H. Ames, Iowa : Iowa State University Press, 1988. Veterinary pharmacology and therapeutics / edited by Nicholas H. Booth, Leslie E. McDonald. p. 1149-1205. Includes references. (NAL Call No.: DNAL SF915.J6 1988).

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The dynamics of ingested methyl mercury in growing and laying chickens.

March, B.E. PDSOA. Poon, R.; Chu, S. Champaign : Poultry Science Association. Poultry science. June 1983. v. 62 (6). p. 1000-1009. Includes references. (NAL Call No.: 47.8 AM33P).

2764

Effect of acetic acid on the death rates of 52 degrees C of Salmonella newport, Salmonella typhimurium and Campylobacter jejuni in poultry scald water.

JFPRDR. Okrend, A.J. Johnston, R.W.; Moran, A.B. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1986. v. 49 (7). p. 500-503. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Effect of acetic acid on the microbiological quality of scalded picked and unpicked broiler carcasses.

JFPRDR. Lillard, H.S. Blankenship, L.C.; Dickens, J.A.; Craven, S.E.; Shackelford, A.D. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1987. v. 50 (2). p. 112-114. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Effect of ammoniation of canola meal on the fishy odor and trimethylamine contents of eggs produced by brown-egg layers (Hens).

Goh, Y.K. Rebolledo, M.; Reblee, A.R.; Clandinin, D.R. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1984. v. 63 (4). p. 706-709. Includes references. (NAL Call No.: 47.8 AM33P).

2767

Effect of an elevated level of carbon dioxide containing atmosphere on the growth of spoilage and pathogenic bacteria at 2, 7, and 13 C.

PDSOA. Baker, R.C. Qureshi, R.A.; Hotchkiss, J.H. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1986. v. 65

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(4). p. 729-737. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effect of ascorbic and isoascorbic acids on survival of *Campylobacter jejuni* in poultry meat.

JFPRDR. Juven, B.J. Kanner, J.; Weisslowicz, H.; Harel, S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. June 1988. v. 51 (6). p. 436-437. Includes references. (NAL Call No.: DNAL 44.8 J824).

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The effect of carbon dioxide packaging on detection of *Campylobacter jejuni* from chicken carcasses.

POSCAL. Wesley, R.D. Stadelman, W.J. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1985. v. 64 (4). p. 763-764. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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The effect of dietary fat and tocopherol on lipolysis and oxidation in turkey meat stored at different temperatures.

Sklan, D. POSCA. Tenne, Z.; Budowski, P. Champaign : Poultry Science Association. Poultry science. Oct 1983. v. 62 (10). p. 2017-2021. Includes references. (NAL Call No.: 47.8 AM33P).

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Effect of environmental temperature and feeding regimen on quantity of digestive tract contents of broilers.

POSCAL. May, J.D. Branton, S.L.; Deaton, J.W.; Simmons, J.D. Champaign, Ill. : Poultry Science Association. Poultry science. Jan 1988. v. 67 (1). p. 64-71. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effect of further processing systems on selected microbiological attributes of turkey meat products.

Denton, J.H. Gardner, F.A. Chicago, Institute of Food Technologists. Journal of food science. Jan/Feb 1982. v. 47 (1). p. 214-217. ill. Includes 13 ref. (NAL Call No.: 389.8 F7322).

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The effect of hand-held inside bird washers on turkey carcass hygienic quality.

Wesley, R.L. POSCA. Bovard, K.P. Champaign : Poultry Science Association. Poultry science. Feb 1983. v. 62 (2). p. 338-340. Includes references. (NAL Call No.: 47.8 AM33P).

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Effect of irradiation temperature on the radiosensitizing activity of vitamin K.

JFDAZ. Chandler, H.K. Licciardello, J.J.; Goldblith, S.A. Chicago, Ill. : The Institute. Journal of food science : an official publication of the Institute of Food Technologists. Sept/Oct 1965. v. 30 (5). p. 893-897. Includes references. (NAL Call No.: DNAL 389.8 F7322).

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The effect of lysozyme and ethylenediaminetetraacetic acid on *Salmonella* on broiler parts.

POSCAL. Samuelson, K.J. Rupnow, J.H.; Froning, G.W. Champaign, Ill. : Poultry Science Association. Poultry science. Aug 1985. v. 64 (8). p. 1488-1490. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effect of nitrate and sorbate on total number of aerobic microorganisms in chicken white and dark meat patties.

Bushway, A.A. Ficker, N.; Jen, C.W. Chicago, Institute of Food Technologists. Journal of food science. May/June 1982. v. 47 (3). p. 858-860, 863. ill. Includes ref. (NAL Call No.: 389.8 F7322).

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Effect of product form on the microbiological growth support characteristics of turkey meat products.

POSCAL. Denton, J.H. Gardner, F.A. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1988. v. 67 (9). p. 1269-1273. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effect of protoporphyrin pigment on shell strength and incidence of meat and blood spots (Chickens, mutants).

Shoffner, R.N. AR-NC. Garwood, V. Champaign, Ill., Poultry Science Association. Poultry science. July 1980. v. 59 (7). p. 1661-1662. (NAL Call No.: 47.8 AM33P).

2779

Effect of reduced processing on recovery of foodborne pathogens from hot-boned broiler meat and skin (*Salmonella*, *Clostridium perfringens*).
Lillard, H.S. Hamm, D.; Thomson, J.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Mar 1984. v. 47 (3). p. 209-212, 216. Includes references. (NAL Call No.: 44.8 J824).

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Effect of rinse volume on recovery of *Salmonella* from broiler carcasses.
Cox, N.A. AR-RRR. Bailey, J.S.; Thomson, J.E. Champaign, Ill., Poultry Science Association. Poultry science. July 1980. v. 59 (7). p. 1560. (NAL Call No.: 47.8 AM33P).

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Effect of sex hormones on the retention of dieldrin in the fat of growing chickens.
Siegel, H.S. Latimer, J.W. Champaign, Ill., Poultry Science Association. Poultry science. Oct 1981. v. 60 (10). p. 2210-2217. ill. 36 ref. (NAL Call No.: 47.8 AM33P).

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Effect of sorbates on microbiological growth in cooked turkey products (Potassium sorbate, sorbic acid).
Robach, M.C. To, E.C.; Meydav, S.; Cook, C.F. Chicago, Institute of Food Technologists. Journal of food science. May/June 1981. v. 45 (3). p. 638-640. Bibliography p. 640. (NAL Call No.: 389.8 F7322).

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Effect of temperature, pH, and detergent on survival of bacteria associated with shell eggs.
Kinner, J.A. Moats, W.A. Champaign, Ill., Poultry Science Association. Poultry science. Apr 1981. v. 60 (4). p. 761-767. ill. 14 ref. (NAL Call No.: 47.8 AM33P).

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Effect of water uptake by poultry tissues on contamination by bacteria during immersion in bacterial suspensions (Contamination of carcasses during immersion washing and chilling procedures).
Thomas, C.U. McMeekin, T.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1984. v. 47 (5). p. 398-402. ill. Includes references. (NAL Call No.: 44.8 J824).

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Effects of branched and straight chain amines and azasteroids on blood and egg cholesterol of White Leghorn chickens (Feed additives, toxicity).
Cecil, H.C. Bitman, J. Svoboda, J.A.; Thompson, M.J. Champaign, Ill., Poultry Science Association. Poultry science. Apr 1981. v. 60 (4). p. 795-804. ill. Bibliography p. 803-804. (NAL Call No.: 47.8 AM33P).

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Effects of egg yolk and salt on *Micrococcaceae* heat resistance.
Verrips, T. AP MBA. Rhee, R. van. Washington : American Society for Microbiology. Applied and environmental microbiology. Jan 1983. v. 45 (1). p. 1-5. Includes references. (NAL Call No.: 448.3 AP5).

2787

Effects of handling and preparation of turkey products on the survival of *Campylobacter jejuni*.
JFPRDR. Acuff, G.R. Vanderzant, C.; Hanna, M.O.; Ehlers, J.G.; Gardner, F.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Various cooking procedures (roasting, braising, stewing and microwave cooking) applied to turkey thighs, and washing procedures for contaminated utensils (knives and cutting boards) and food handlers' hands were evaluated for their effectiveness in removing *Campylobacter jejuni*. Roasting, braising and stewing were effective in destruction of *C. jejuni* on contaminated turkey thighs even when the meat was undercooked, reaching an internal temperature of 55 degrees C. Destruction of *C. jejuni* by microwave cooking was assured more fully if a meat thermometer was used to check the internal temperature of the sample rather than by visual evaluation. Washing of utensils with water and detergent, either by hand or in a dishwasher, removed *C. jejuni* except from wooden cutting boards washed by hand. Minimal hand washing procedures may not assure complete removal of *C. jejuni* from contaminated hands. (author). Journal of food protection. Aug 1986. v. 49 (8). p. 627-631. charts. Includes 15 references. (NAL Call No.: DNAL 44.8 J824).

2788

Effects of irradiation on growth and toxigenicity of *Clostridium botulinum* types A and B inoculated onto chicken skins.
AP MBA. Dezfulian, M. Bartlett, J.G. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. Jan 1987. v. 53 (1). p. 201-203. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Effects of kanamycin administration to poultry on the interspecies transmission of drug-resistant Salmonella.

POSCAL. Gast, R.K. Stephens, J.F.; Foster, D.N. Champaign, Ill. : Poultry Science Association. Poultry science. May 1988. v. 67 (5). p. 699-706. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effects of kanamycin administration to poultry on the proliferation of drug-resistant Salmonella.

POSCAL. Gast, R.K. Stephens, J.F. Champaign, Ill. : Poultry Science Association. Poultry science. May 1988. v. 67 (5). p. 689-698. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effects of the evisceration and cooling processes on the incidence of Salmonella in fresh dressed turkeys grown under Salmonella-controlled and uncontrolled environments (Carcass rinsing).

Campbell, D.F. Johnston, R.W.; Wheeler, M.W.; Nagaraja, K.V.; Szymanski, C.D. Champaign, Ill. : Poultry Science Association. Poultry science. May 1984. v. 63 (5). p. 1069-1072. Includes references. (NAL Call No.: 47.8 AM33P).

2792

The efficacy of chlorine dioxide in controlling Salmonella contamination and its effect on product quality of chicken broiler carcasses.

Thiessen, G.P. Osborne, W.R.; Orr, H.L. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1984. v. 63 (4). p. 647-653. ill. Includes references. (NAL Call No.: 47.8 AM33P).

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Efficacy of hydrogen peroxide as a bactericide in poultry chiller water (as an alternative to chlorine).

Lillard, H.S. JFDSA. Thomson, J.E. Chicago : Institute of Food Technologists. Journal of food science. Jan/Feb 1983. v. 48 (1). p. 125-126. Includes references. (NAL Call No.: 389.8 F7322).

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Efficacy of media and methods for detecting and enumerating Campylobacter jejuni in refrigerated chicken meat.

APMBA. Beuchat, L.R. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. Oct 1985. v. 50 (4). p. 934-939. ill. Includes 31 references. (NAL Call No.: DNAL 448.3 AP5).

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Electrophoretic and chromatographic changes in egg yolk proteins due to heat (Pasteurization). Dixon, D.K. Cotterill, D.J. Chicago, Institute of Food Technologists. Journal of food science. July 1981. v. 46 (4). p. 981-983, 990. ill. 14 ref. (NAL Call No.: 389.8 F7322).

2796

Elimination of Salmonella from processed broiler meat with PHMB

(poly(hexamethylenebiguanide hydrochloride)). Thomson, J.E. AR-RRC. Cox, N.A.; Bailey, J.S.; Islam, M.N. Champaign, Ill., Poultry Science Association. Poultry science. July 1980. v. 59 (7). p. 1573. (NAL Call No.: 47.8 AM33P).

2797

Enteropathogenic bacterial in frozen chicken.

Norberg, P. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. July 1981. v. 42 (1). p. 32-34. Bibliography p. 34. (NAL Call No.: 448.3 AP5).

2798

Enumeration of fluorescent pseudomonads on poultry by using the hydrophobic-grid membrane filter method.

JFDAZ. Knabel, S.J. Walker, H.W.; Kraft, A.A. Chicago, Ill. : Institute of Food Technologists. Abstract: A grid-counting membrane filter method is reported for the determination of fluorescent pseudomonads (FP) on cut-up chicken stored at 5 degrees C which produce some of the more significant volatile, sulfur-containing compounds associated with spoiled poultry. The results indicated that fluorescent pigment inhibited the growth of non-fluorescent isolates, and that shelf life was greater for poultry having lower initial numbers of FP. The reported method gave results similar to those obtained with the aerobic plate count method, and produced more accurate numbers of initial FP on poultry than the spread-plate method.(wz). Journal of food science. July/Aug 1987. v. 52 (4). p. 837-841, 845. ill., charts. Includes 42 references. (NAL Call No.: DNAL 389.8 F7322).

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An enzyme immunoassay technique for detection of salmonellae in meat and poultry products.
Emswiler-Rose, B. Gehle, W.D.; Johnston, R.W.; Okrend, A.; Moran, A.; Bennett, B. Chicago, Ill. : Institute of Food Technologists. Journal of food science. July/Aug 1984. v. 49 (4). p. 1018-1020. Includes references. (NAL Call No.: 389.8 F7322).

2800

Enzyme-linked immunosorbent assay for detection of Salmonella lipopolysaccharide in poultry specimens (Egg wash water, frozen broiler carcasses, feed, litter, feces).
Rigby, C.E. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. June 1984. v. 47 (6). p. 1327-1330. Includes 9 references. (NAL Call No.: 448.3 AP5).

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Estimation of chicken microbial load using the growth curve parameters of chicken microflora.
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Foodborne illnesses and deathshearing before the Committee on Agriculture, Nutrition, and Forestry, United States Senate, One Hundredth Congress, first session, June 4, 1987.

United States.~Congress.~Senate.~Committee on Agriculture, Nutrition, and Forestry. Washington D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1988. Abstract: A major congressional report presents the full testimony of a 1987 hearing before the US Senate on incidence of foodborne illness and mortality due to food contaminants, and food safety requirements for reducing such risks. The report includes the statements of 9 Senators and testimony by 5 witnesses. The witnesses include leaders from the USDA Food Safety and Inspection Service, the Center for Infectious Diseases, the FDA Center for Food Safety and Applied Nutrition, the USDA Economic Research Service, and the National Association of Federal Veterinarians. Ancillary material submitted for the record is appended. Attention is given to the incidence and cost of US foodborne disease. Distributed to some depository libraries in microfiche. iii., 110 p. : ill. ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF26.A35 19871).

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JANCA2. Nagata, T. Saeki, M. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. Nov/Dec 1986. v. 69 (6). p. 941-943. ill. Includes references. (NAL Call No.: DNAL 381 AS7).

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Liquid chromatographic determination of cyclopiazonic acid in poultry meat.

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JANCA2. Parks, O.W. Doerr, R.C. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1986. v. 69 (1). p. 70-71. Includes 7 references. (NAL Call No.: DNAL 381 AS7).

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POSCAL. Micco, C. Miraglia, M.; Onori, R.; Ioppolo, A.; Mantovani, A. Champaign, Ill. : Poultry Science Association. Poultry science. Jan 1987. v. 66 (1). p. 47-50. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Post, R.C.POSCA. Heath, J.L. Champaign : Poultry Science Association. Poultry science. June 1983. v. 62 (6). p. 977-984. ill. Includes references. (NAL Call No.: 47.8 AM33P).

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Meat and poultry inspection report of the Secretary of Agriculture to the Committee on Agriculture, House of Representatives and Committee on Agriculture, Nutrition, and Forestry, U.S. Senate /United States Department of Agriculture, Food Safety and Quality Service.

United States.~Food Safety and Quality Service. Washington, D.C. : The Service, -1980. Title from cover. v. : ill. ; 28 cm. (NAL Call No.: DNAL aTS1975.A1U5).

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Meat and poultry inspection report of the Secretary of Agriculture to the U.S. Congress /United States Department of Agriculture, Food Safety and Inspection Service.

United States.~Food Safety and Inspection Service. Washington, D.C. : The Service, . Meat

and poultry inspection. Description based on: 1985; title from cover.~ Subtitle varies. v. : ill. ; 28 cm. (NAL Call No.: DNAL aTS1975.A1U5).

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Meat and poultry inspection the scientific basis of the nation's program /prepared by the Committee on the Scientific Basis of the Nation's Meat and Poultry Inspection Program, Food and Nutrition Board, Commission on Life Sciences, National Research Council.

National Research Council (U.S.).~Committee on the Scientific Basis of the Nation's Meat and Poultry Inspection Program. Washington, D.C. : National Academy Press, 1985. Abstract: An authoritative report prepared by an expert committee of the National Research Council's Food and Nutrition Board for the meat and poultry industry and its regulators summarizes the current body of knowledge concerning the human health hazards of meat and poultry contaminants as they affect quality and public safety, and the technological status of inspection to ensure product quality and safety for consumers. Topics covered in the 10 sections of this report include: a history of inspection programs and current controversies and concerns; public health hazards due to biological and chemical contamination, and their management; environmental factors associated with meat and poultry production; antemortem and postmortem inspections; inspections during meat and poultry processing; application of the hazard analysis critical control point approach to food safety; recent technological advances in meat and poultry inspection; and evidence needed for quantitative~ health risk assessment for decision making in meat and poultry inspection. An executive summary of the findings and recommendations of the overall study preceeds the body of the report, and information on US production levels of meat and poultry and on USDA quality control regulations is appended. xii, 209 p. ; 28 cm. Includes bibliographies and index. (NAL Call No.: DNAL TS1975.N38).

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A method for the determination of octa- and nonachloro-2-phenoxyphenols in chicken tissue.

Newsome, W.H.IUEAC. Shields, J.B. New York : Gordon and Breach Science Publishers. International journal of environmental analytical chemistry. 1983. v. 14 (4). p. 299-306. ill. Includes references. (NAL Call No.: QH540.I52).

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Mulder, R.W.A.W. Bolder, N.M. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 242-248. ill. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

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Microbial colonization control of chicken intestine using defined cultures.

FOTEA. Stavric, S. Chicago, Ill. : Institute of Food Technologists. Abstract: A technical report provides an overview of the Nurmi concept for microbial colonization control in poultry and reviews the current status of the development and use of defined cultures as a treatment for controlling Salmonella colonization in poultry. This concept recognizes the importance of establishing adult gut microflora in newly hatched chicks or turkey poults. Specific attention is given to: the mechanism by which native gut microflora prevent Salmonella infection; factors affecting the efficacy of treatment; the development of defined treatments and comparison of their

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relative effectiveness; treatment efficacy under commercial conditions; and prospects for the commercial establishment of defined culture treatments. It is concluded that while much work has been carried out, the development of a reliable treatment that mimics the efficacy and stability of undefined cultures requires further research.(wz). Food technology. Based on paper presented at IFT Food Microbiology Div Prog, "Foodborne disease as influenced by colonization control of enteropathogens in poultry and livestock," at anl mtg of Inst of Food Tech, June 16-19, 1987, Las Vegas, NV. July 1987. v. 41 (7). p. 93-98. charts. Includes 50 references. (NAL Call No.: DNAL 389.8 F7398).

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Microbial contamination of the hen's egg: a review.

Mayes, F.J. JFPRD. Takeballi, M.A. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Dec 1983. Literature review. v. 46 (12). p. 1092-1098. Includes references. (NAL Call No.: 44.8 J824).

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Cox, N.A. POSCA. Bailey, J.S.; Lyon, C.E.; Thomson, J.E.; Hudspeth, J.P. Champaign : Poultry Science Association. Poultry science. June 1983. v. 62 (6). p. 960-964. Includes references. (NAL Call No.: 47.8 AM33P).

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Microbiological quality assurance in poultry processing.

Wabeck, C.J. College Park, Md. : The Service. The Maryland poultryman - Cooperative Extension Service, University of Maryland. May 1985. p. 4-5. (NAL Call No.: DNAL 275.28 M36).

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Microbiological quality of Canadian frozen meat pies.

JFPRDR. Rayman, K. Weiss, K.F.; Riedel, G.; Jarvis, G. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1986. v. 49 (8). p. 634-638. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Microbiological quality of vacuum packaged poultry with or without chlorine treatment.

Kraft, A.A. Reddy, K.V.; Hasiak, R.J.; Lind, K.D.; Galloway, D.E. Chicago, Institute of Food Technologists. Journal of food science. Mar/Apr 1982. v. 47 (2). p. 380-385. ill. Includes 20 ref. (NAL Call No.: 389.8 F7322).

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Microbiology of ova harvested from commercially slaughtered mature chickens.

Blankenship, L.C. Hudspeth, J.P.; Craven, S.E. Champaign, Ill., Poultry Science Association. Poultry science. Feb 1982. v. 61 (2). p. 395-398. Includes 4 ref. (NAL Call No.: 47.8 AM33P).

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Cunningham, F.E. Champaign, Ill., Poultry Science Association. Poultry science. May 1981. v. 60 (5). p. 969-971. ill. 17 ref. (NAL Call No.: 47.8 AM33P).

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Oblinger, J.L. Kennedy, J.E. Jr.; Langston, D.M. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1982. v. 45 (10). p. 948-952. 24 ref. (NAL Call No.: 44.8 J824).

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JADAA. Lindsay, R.E. Krissinger, W.A.; Fields, B.F. Chicago, Ill. : The Association. Abstract: A study evaluated whether internal temperature was a satisfactory guide for controlling the safety of chicken prepared in a microwave oven.

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The results indicated that internal temperature would not be a satisfactory guide for ensuring safety since: (a) 8 of 9 cooked samples produced some type of positive culture; (b) over 50 per cent of the samples produced viable *Salmonella*; and (c) the extent of bacterial growth from all microwave cooked samples was greater than that of samples cooked in a conventional oven. (wz). Journal of the American Dietetic Association. Mar 1986. v. 86 (3). p. 373-374. charts. Includes 20 references. (NAL Call No.: DNAL FNC 389.8 AM34).

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JFPRDR. Truscott, R.B. Lammerding, A.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1987. v. 50 (10). p. 815-819. ill. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Thomson, J.E. Cox, N.A.; Bailey, J.S.; Islam, M.N. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. June 1981. v. 44 (6). p. 440-441, 444. 12 ref. (NAL Call No.: 44.8 J824).

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JAVMA. Hathaway, S.C. Pullen, M.M.; McKenzie, A.I. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical

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POSCAL. Shackelford, A.D. Champaign, Ill. : Poultry Science Association. Poultry science. June 1988. v. 67 (6). p. 933-935. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Multiresidue gas chromatographic method for determining organochlorine pesticides in poultry fat: collaborative study.

Ault, J.A. Spurgeon, T.E. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Mar/Apr 1984. v. 67 (2). p. 284-289. Includes references. (NAL Call No.: 381 AS7).

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Mutagenesis testing of acetyl-tributylcitrate and epoxidized soybean oil (*Salmonella* typhimurim, plasticizers, poultry meat wrapping).

Heath, J.L. POSCA. Reilly, M. Champaign : Poultry Science Association. Poultry science. Dec 1982. v. 61 (12). p. 2517-2519. 9 ref. (NAL Call No.: 47.8 AM33P).

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Wabeck, C.J. College Park, Md. : The Service. The Maryland poultryman - Cooperative Extension Service, University of Maryland. Apr 1988. p. 4-5. (NAL Call No.: DNAL 275.28 M36).

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Washington, D. C. : The Service. APHIS 91 - United States Department of Agriculture, Animal and Plant Health Inspection Service. May 1982. (40). 57 p. ill. (NAL Call No.: DNAL aSF601.A1U5).

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National Poultry Improvement Plan: 1987 directory of participants handling egg-type and meat-type chickens and turkeys.

Washington, D. C. : The Service. APHIS 91 - United States Department of Agriculture, Animal and Plant Health Inspection Service. Mar 1987. (41). 49 p. ill. (NAL Call No.: DNAL aSF601.A1U5).

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National Poultry Improvement Plan: 1987 directory of participants handling waterfowl, exhibition poultry, and game birds.

Washington, D. C. : The Service. APHIS 91 - United States Department of Agriculture, Animal and Plant Health Inspection Service. Mar 1987. (42). 74 p. (NAL Call No.: DNAL aSF601.A1U5).

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Johnston, R.W. Reamer, R.H.; Harris, E.W.; Fugate, H.G.; Schwab, B. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Nov 1981. v. 44 (11). p. 828-831. 9 ref. (NAL Call No.: 44.8 J824).

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SCIEA. Sun, M. Washington, D.C. : American Association for the Advancement of Science. Science. Nov 16, 1984. v. 226 (4676). p. 818. (NAL Call No.: DNAL 470 SCI2).

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Occurrence and survival of Campylobacter jejuni in milk and turkey (Meat).

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Ishida, M. Suyama, K.; Adachi, S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1981. v. 29 (1). p. 72-74. ill. 9 ref. (NAL Call No.: 381 J8223).

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Occurrence of Yersinia enterocolitica in poultry products.

Boer, E. de. Hartog, B.J.; Oosterom, J. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Mar 1982. v. 45 (4). p. 322-325. Includes 37 ref. (NAL Call No.: 44.8 J824).

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POSCAL. Murphy, M.L. Fischer, C.M.; Nakaue, H.S.; Hakimi, A.Y. Champaign, Ill. : Poultry Science Association. Poultry science. July 1986. v. 65 (7). p. 1281-1286. ill. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Englander, S.J. Atwood, R.G.; Greenwood, M.R.; Clarkson, T.W. Washington, D.C., Heldref Publications. Archives of environmental health. July/Aug 1980. v. 35 (4). p. 224-228. ill. 19 ref. (NAL Call No.: RC963.A1A7).

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PDSCAL. Kahunyo, J.M. Maitai, C.K.; Forxlie, A. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1084-1089. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Origin and prevalence of campylobacter jejuni in ducks and duck meat at the farm and processing plant level.

JFPRDR. Kasrazadeh, M. Genigeorgis, C. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1987. v. 50 (4). p. 321-326. Includes references. (NAL Call No.: DNAL 44.8 J824).

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PDSCAL. Houston, D.L. Champaign, Ill. : Poultry Science Association. Poultry science. Mar 1985. v. 64 (3). p. 481-484. (NAL Call No.: DNAL 47.8 AM33P).

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Killoran, J. J. Natick, Mass. U.S. Army Natick Research and Development Command, Food Engineering Laboratory (1979?). "ERRC-ARS 82.". 1 v. (various pagings) : ill. ; 28 cm. Includes bibliographies. (NAL Call No.: TX556.P9K53).

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Cox, N.A. Bailey, J.S. Orlando : Academic Press, 1987. Abstract: Morphology, clinical infections, epidemiology, control and prevention of the following foodborne pathogens are discussed: Campylobacter, Clostridium, Salmonella, Staphylococcus, and Yersinia. Characteristics and symptoms of gastroenteritis that they produce are outlined as well. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 293-316. charts. Includes 150 references. (NAL Call No.: DNAL QR117.M5).

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Yde, M. Ghysels, G. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Mar 1984. v. 47 (3). p. 217-219. Includes references. (NAL Call No.: 44.8 J824).

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Niven, C.F. Jr. Westport, Conn. : AVI Publishing Company. Advances in meat research. 1986. v. 2. p. 397-410. Includes references. (NAL Call No.: DNAL TS1960.A33).

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Photodegradation of sulfa drugs by fluorescent light.

JANCA2. Parks, D.W. Arlington, Va. : The Association of the Association of Official Analytical Chemists. Nov/Dec 1985. v. 68 (6). p. 1232-1234. ill. Includes 8 references. (NAL Call No.: DNAL 381 AS7).

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Physicochemical changes produced in egg yolk by Streptococcus faecalis var. liquefaciens.

Gravani, R.B. Vadehra, D.V.; Baker, R.C. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1984. v. 63 (4). p. 654-660. ill. Includes references. (NAL Call No.: 47.8 AM33P).

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Plasmid profiles as indicators of the source of contamination of Staphylococcus aureus endemic within poultry processing plants.

APMBA. Dodd, C.E.R. Chaffey, B.J.; Waites, W.M. Washington, D.C. : American Society for Microbiology. Abstract: A total of 530 strains

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of *Staphylococcus aureus* were isolated from the defeathering machinery of a chicken processing plant and from neck skin samples of carcasses at different stages of processing in two visits 4 weeks apart. Eleven different plasmid profiles were detected in the isolates, eight being common to both visits. The plasmid profiles of the strains forming the majority of the population on the freshly slaughtered birds were rarely present in the strains isolated from the pluckers (except at the entry to the first plucker) and were present in only a small proportion of the strains isolated from carcasses after plucking. However, the profiles from the strains isolated from the pluckers on both visits were different from those forming the majority of the population on the incoming birds but formed the major part of the carcass flora after plucking, suggesting that such strains were endemic. These strains were found as a small proportion of the isolates made from the incoming birds, suggesting that this was the route by which the endemic strains were introduced into the plant. Such endemic strains exhibited a clumping growth, even in liquid shake culture, which may have made it easier for them to become established on the pluckers and to resist cleaning and disinfection. This clumping phenotype was correlated with the presence of a 7.5-megadalton plasmid. Applied and environmental microbiology. June 1988. v. 54 (6). p. 1541-1549. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

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Vara, J. Charolette, Vt. : Camden House Publishing. Harrowsmith. May/June 1987. v. 2 (9). p. 123. ill. (NAL Call No.: DNAL S522.U5H37).

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Poultry-associated foodborne disease--its occurrence, cost, sources and prevention.

Todd, E.C.D. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1980. Literature review. v. 43 (2). p. 129-139, 126. ill. 143 ref. (NAL Call No.: 44.8 J824).

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Soulakos, C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1984 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, Winter 1984. (84-6545). 13 p. Includes references. (NAL Call No.: DNAL FICHE 290.9 AM32P).

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Practical problems of Salmonella control during processing of chickens.

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Preliminary observations on the occurrence of Campylobacter jejuni at four California chicken ranches (Human enteritis).

Smitherman, R.E. Genigeorgis, C.A.; Farver, T.B. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1984. v. 47 (4). p. 293-298. Includes references. (NAL Call No.: 44.8 J824).

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Prevalence of Campylobacter jejuni at different sampling sites in two California turkey processing plants (Turkey meat, contamination).

Yusufu, H.I. JFPRD. Genigeorgis, C.; Farver, T.B.; Wempe, J.M. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1983. v. 46 (10). p. 868-872. Includes references. (NAL Call No.: 44.8 J824).

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Prevalence of Campylobacter jejuni in chicken wings (Infectious enteritis in humans).

Kinde, H. APMB. Genigeorgis, C.A.; Pappaioanou, M. Washington : American Society for Microbiology. Applied and environmental microbiology. Mar 1983. v. 45 (3). p. 1116-1118. Includes references. (NAL Call No.: 448.3 AP5).

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Prevalence of Campylobacter jejuni in eggs and poultry meat in New York state.

POSCAL. Baker, R.C. Paredes, M.D.C.; Qureshi, R.A. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1987. v. 66 (11). p. 1766-1770. Includes references. (NAL

Call No.: DNAL 47.8 AM33P).

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Prevalence of Campylobacter jejuni in turkey carcass processing and further processing of turkey products.

JFPRDR. Acuff, G.R. Vanderzant, C.; Hanna, M.O.; Ehlers, J.G.; Golan, F.A.; Gardner, F.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1986. v. 49 (9). p. 712-717. Includes references. (NAL Call No.: DNAL 44.8 J824).

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Prevalence of Campylobacter jejuni in turkey carcass processing and further processing of turkey products.

Acuff, G.R. Vanderzant, C.; Hanna, M.O.; Ehlers, J.G.; Golan, F.A.; Gardner, F.A. New York : Human Sciences Press. Extract: Presence of Campylobacter jejuni was determined at various locations in turkey carcass processing and further processing of turkey products (wieners, ham and boneless breast). Contamination of turkey carcasses with C. jejuni, in most cases, occurred on the surface of the skin or on the surface of the abdominal cavity lining. No contamination of interior muscle tissue was observed. The percentage of turkeys containing C. jejuni upon entering the processing plant varied (50 to 100 per cent). Large numbers of C. jejuni were killed during scalding of carcasses, but extensive recontamination occurred during mechanical defeathering. After scalding, numbers of C. jejuni peaked during evisceration, but dropped to lower levels after washing. Few or no C. jejuni were recovered from the carcasses after leaving the chill tank. No C. jejuni were detected on frozen turkey carcasses, including the drip, at the wholesale or retail level. However, Campylobacter coli was detected in the drip of a few carcasses that had been in frozen storage at the wholesale level for 2 wk and 3 months. Neither C. jejuni nor C. coli was detected on frozen turkeys at the retail level. Although, in some cases, C. jejuni were recovered from turkey meat during initial stages of further processing, no C. jejuni were recovered from heat-treated, further processed products.(author). Journal of obesity and weight regulation. Sept 1986. v. 49 (9). p. 712-717. charts. Includes 33 references. (NAL Call No.: DNAL RC628.0222).

2946

Prevalence of Campylobacter jejuni on turkey wings at the supermarket level.

Rayes, H.M.JFPRD. Genigeorgis, C.A.; Farver, T.B. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1983. v. 46 (4). p. 292-294. Includes references. (NAL Call No.: 44.8 J824).

Prevalence of Salmonella and thermophilic Campylobacter in fresh pork, beef, veal and poultry in Canada.

JFPRDR. Lammerding, A.M. Garcia, M.M.; Mann, E.D.; Robinson, Y.; Dorward, W.J.; Truscott, R.B.; Tittiger, F. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: A national surveillance program was undertaken in Canada to establish the prevalence and distribution of Salmonella and thermophilic Campylobacter biotypes in slaughter animals and poultry. During the years 1983 to 1986, samples were collected from federally inspected abattoirs across Canada and tested at regional laboratories. The laboratory isolation procedure for thermophilic Campylobacter included selective enrichment and isolates were characterized according to Lior's biotyping scheme. Salmonella were isolated from 17.5% pork, 2.6% beef and 4.1% veal carcasses. Thermophilic Campylobacter were isolated from 16.9% pork, 22.6% beef and 43.1% veal carcasses. Salmonella were isolated from 69.1% turkey and 60.9% chicken carcasses, and thermophilic Campylobacter were isolated from 73.7% and 38.2% turkey and chicken carcasses, respectively. Salmonella typhimurium was the most frequently isolated serotype, and predominant in broiler chickens from 1983 to 1985. Salmonella brandenburg was predominant in pork, and Salmonella schwarzengrund was the primary serotype from turkey carcasses. Campylobacter jejuni biotypes I and II were the most frequently isolated biotypes from beef, veal and poultry. Although Campylobacter coli biotype I was the predominant thermophilic Campylobacter in pork, 41.1% of the biotyped isolates from pork were C. jejuni biotypes I and II.(author). Journal of food protection. Jan 1988. v. 51 (1). p. 47-52. charts. Includes 41 references. (NAL Call No.: DNAL 44.8 J824).

2948

Prevalence of Salmonella contamination in market-ready geese in Manitoba.

AVDIA. Mann, E.D. McNabb, G.D. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Oct/Dec 1984. v. 28 (4). p. 978-983. Includes 5 references. (NAL Call No.: DNAL 41.8 AV5).

2949

Prevalence of Salmonellae on eggs from poultry farms in New York State.

POSCAL. Baker, R.C. Goff, J.P.; Timoney, J.F. College Station, Tex. : Poultry Science Association. Poultry science. Feb 1980. v. 59 (2). p. 289-292. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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2950

Prevention of Salmonella infection in chicks by treatment with fecal cultures from mature chickens (Nurmi cultures).

Pivnick, H. Blanchfield, B.; D'Aoust, J.Y. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Dec 1981. v. 44 (12). p. 909-916. 32 ref. (NAL Call No.: 44.8 J824).

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Procedure for isolation and identification of Salmonella from poultry carcasses (Bacterial contaminants, food inspection).

Cox, N.A. Thomson, J.E.; Bailey, J.S. Washington, D.C. : The Department. Agriculture handbook - United States Department of Agriculture. Aug 1983. Aug 1983. (603). 10 p. ill. Includes references. (NAL Call No.: 1 AG84AH).

2952

Processing and food safety.

AKFRAC. Izat, A. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Jan/Feb 1988. v. 37 (1). p. 8. (NAL Call No.: DNAL 100 AR42F).

2953

Processing yields and meat flavor of broilers fed a mixture of narasin and nicarbazin as an anticoccidial agent.

POSCAL. Peng, I.C. Larsen, J.E.; Stadelman, W.J.; Jones, D.J.; Tonkinson, L.V. Champaign, Ill. : Poultry Science Association. Poultry science. Aug 1987. v. 66 (8). p. 1341-1345. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2954

Psychrotrophic organisms.

Kraft, A.A. Westport, Conn. : AVI Publishing Company. Advances in meat research. 1986. v. 2. p. 191-208. Includes references. (NAL Call No.: DNAL TS1960.A33).

2955

Public health aspects of toxic heavy metals in animal feeds (Dairy cattle, swine, and laying chickens).

Sharma, R.P. Street, J.C. Schaumburg, Ill., The Association. Journal of the American Veterinary Medical Association. July 15, 1980. v. 177 (2). p. 149-153. ill. 8 ref. (NAL Call No.: 41.8 AM3).

2956

Quality control activities (Production of processed meat and poultry).

Dubbert, W.H. FSQS. Arlington, Va., American Meat Institute Foundation. Proceedings of the Meat Industry Research Conference. 1980. 1980. p. 69-72. (NAL Call No.: TX371.M4).

2957

Quality of frozen poultry as affected by storage and other conditions by Harold M. Harshaw ... (et al.) ; United States Department of Agriculture, Bureau of Animal Industry, Agricultural Chemistry and Engineering, and Home Economics and the Agricultural Marketing Service, in cooperation with the Institute of American Poultry Industries. -.

Harshaw, Harold M. Washington, D.C. U.S. Dept. of Agriculture 1941. 20 p. --. Includes bibliographical references. (NAL Call No.: Fiche S-69 no.768).

2958

Quantitative gas chromatographic-mass spectrometric assay of five sulvonamide residues in animal tissue.

JANCA2. Simpson, R.M. Suhre, F.B.; Shafer, J.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1985. v. 68 (1). p. 23-26. Includes 5 references. (NAL Call No.: DNAL 381 AS7).

2959

Rabbit teratology study : final report, 05 August 1977 to 31 March 1978, specified in the Animal feeding study protocol for irradiation sterilized test foods, dated 21 October 1975 / submitted to U.S. Department of Agriculture/ARS, Eastern Regional Research Center to meet requirements of contract 53-3K06-1-29 by Ralston Purina Company. -. St. Louis, Mo. The Company (1982). Spine title: A teratology study in rabbits fed irradiation sterilized chicken. vi, 161, 12, 55, 165 p. : ill. ; 30 cm. Includes bibliographies. (NAL Call No.: TX556.P9R3).

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Rabbit teratology study submitted to U.S. Department of Agriculture/ARS, Eastern Regional Research Center ... to meet requirements of Contract 53-3K06-1-29 ; by Ralston Purina Company ; (Key personnel Dan C. Ronning ... (et al.)). -. Ronning, Danny C. & Animal feeding study protocol for irradiation sterilized test foods; (microform). St. Louis, Mo. (900 Checkerboard Square, St. Louis, Mo. 63164) The Company 1982. Contract no. DAMD 17-76-C-6047; USDA 53-3K061-1-29. Project no. 1402-20820-29. Performing organization report no. ERRC-ARS 65

~Final report August 77 to 31 March 1978 ~The test protocol "Animal feeding study protocol for irradiation sterilized test foods" should be consulted for experimental method submitted to FDA in March 1984. 1 v. (various pagings) : ill. Bibliography: p. 23. (NAL Call No.: Fiche 155).

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RAP: USDA's Residue Avoidance Program (Meat and poultry).

Engel, R.E. Chicago, Ill. : National Live Stock and Meat Board. Proceedings - Annual Reciprocal Meat Conference of the American Meat Science Association. 1983. 1983. (36th). p. 147-150. (NAL Call No.: 50.9 R24).

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Rapid detection of salmonellae in mechanically deboned poultry meat.

Greenwood, D.E. Swaminathan, B. Champaign, Ill., Poultry Science Association. Poultry science. Oct 1981. v. 60 (10). p. 2253-2257. 16 ref. (NAL Call No.: 47.8 AM33P).

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Rapid estimation of microbial numbers on meat and poultry by the direct epifluorescent filter technique.

JFPRDR. Shaw, B.G. Harding, C.D.; Hudson, W.H.; Farr, L. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1987. v. 50 (8). p. 652-657, 664. Includes references. (NAL Call No.: DNAL 44.8 J824).

2964

Rapid liquid chromatographic determination of clopidol in chicken muscles (Coccidiostats).

Mtema, C.A. Nakazawa, H.; Takabatake, E. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Mar/Apr 1984. v. 67 (2). p. 334-336. Includes references. (NAL Call No.: 381 AS7).

2965

Rapid procedure for biochemical characterization and serological confirmation of suspect Salmonella isolates (Chicken broiler, carcasses, meat).

Bailey, J.S. JFPRD. Cox, N.A.; Thomson, J.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1983. v. 46 (9). p. 764-766. Includes references. (NAL Call No.: 44.8 J824).

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Rapid procedure for determination of nicarbazin residues in chicken tissues.

JANCA2. Parks, O.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. July/Aug 1988. v. 71 (4). p. 778-780. Includes references. (NAL Call No.: DNAL 381 AS7).

2967

Rapid radiometric method for detection of Salmonella in foods (Chickens).

Stewart, B.J. Eyles, M.J.; Murrell, W.G. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Aug 1980. v. 40 (2). p. 223-230. ill. 19 ref. (NAL Call No.: 448.3 AP5).

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Rat teratology study : final report / submitted to: Russel (i.e. Russell) Research Center U.S. Department of Agriculture, to meet the requirements of contract 53-3K06-1-29 ; by Raltech Scientific Services. -.

St. Louis, Mo. Raltech Scientific Services (1981). "27 February 1979 to 28 March 1979, conducted to meet requirements of contract DAMD17-76-C-6047, specified in the Animal feeding study protocol for irradiation sterilized test foods, dated 21 October 1975. ~"ERRC-ARS ~ 9.". v. 44, 65, 145 p. ; 28 cm. Bibliography: p. 25. (NAL Call No.: TX556.P9R38).

2969

Recovery of Campylobacter jejuni from fresh and frozen meat and poultry collected at slaughter.

Stern, N.J. Green, S.S.; Thaker, N.; Krout, D.J.; Chiu, J. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1984. v. 47 (5). p. 372-374. Includes references. (NAL Call No.: 44.8 J824).

2970

Recovery of coliphages from chicken, pork sausage and delicatessen meats.

Kennedy, J.E. Jr. Oblinger, J.L.; Bitton, G. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1984. v. 47 (8). p. 623-626. Includes 31 references. (NAL Call No.: 44.8 J824).

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2971

Reduction of numbers of Salmonella typhimurium on poultry parts by repeated freeze-thaw treatments.

Olson, V.M. Swaminathan, B.; Stadelman, W.J. Chicago, Institute of Food Technologists. Journal of food science. Sept/Oct 1981. v. 46 (5). p. 1323-1326. ill. Includes 25 ref. (NAL Call No.: 389.8 F7322).

2972

Reduction of Salmonella on chicken carcasses by immersion treatments.

JFPRDR. Morrison, G.J. Fleet, G.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Using a tracer strain of Salmonella typhimurium and a direct-counting technique, a procedure was developed for evaluating the effect of immersion treatments on the Salmonella contamination of chicken carcasses. Immersion of carcasses in 60 C water for 10 min gave 100-fold reduction in Salmonella counts. Addition of 200 ppm chlorine or 2.5% potassium sorbate to the water increased the reductions to 1000-fold with elimination of Salmonella from most carcasses. Other immersion treatments were not as effective. Sensory evaluation indicated the acceptability of treated carcasses on the basis of appearance and flavour. (author). Journal of food protection. Nov 1985. v. 48 (11). p. 939-943. charts. Includes 24 references. (NAL Call No.: DNAL 44.8 J824).

2973

Relationship between incidence of Salmonella contamination among pre-scalded, eviscerated and postchilled chickens in a poultry processing plant.

McBride, G.B. Skura, B.J.; Yada, R.Y.; Bowmer, E.J. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. July 1980. v. 43 (7). p. 538-542. ill. 29 ref. (NAL Call No.: 44.8 J824).

2974

Research note: salmonella decontamination of broiler carcasses with lactic acid, L-cysteine, and hydrogen peroxide.

POSCAL. Mulder, R.W.A.W. Hulst, M.C. van der; Bolder, N.M. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1987. v. 66 (9). p. 1555-1557. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2975

Residues of carbaryl and two of its metabolites in eggs of laying hens treated with Sevin for northern fowl mite control by dipping (Ornithonyssus sylviarum).

Ivey, M.C. POSCAL. Ivie, G.W.; Devaney, J.A.; Beerwinkle, K.R. Champaign : Poultry Science Association. Poultry science. Jan 1984. v. 63 (1). p. 61-65. Includes references. (NAL Call No.: 47.8 AM33P).

2976

Residues of stirofos (Rabon) in eggs of laying hens treated for northern fowl mite control by dipping (Ornithonyssus sylviarum).

Ivey, M.C. Devaney, J.A.; Ivie, G.W.; Beerwinkle, K.R. Champaign, Ill., Poultry Science Association. Poultry science. Mar 1982. v. 61 (3). p. 443-446. Includes 17 ref. (NAL Call No.: 47.8 AM33P).

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Residues of the forced molting agent xyloniidine in chicken egg yolk and albumen as determined by combined gas-liquid chromatography-mass spectrometry.

Taylor, J.E. Van Iderstine, A.; Weppelman, R.M.; Olson, G.; Walker, R.W.; Mertel, H.E.; VandenHeuvel, W.J.A. Washington, American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1982. v. 30 (5). p. 858-861. ill. 1 p. ref. (NAL Call No.: 381 J8223).

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Return to the jungle : how the Reagan administration is imperiling the nation's meat and poultry inspection program / by Kathleen Hughes ; foreward (sic) by Ralph Nader. -. Hughes, Kathleen. Washington, D.C. Center for Study of Responsive Law c1983. vi, 63 p. ; 28 cm. (NAL Call No.: KF1911.5.Z9H83).

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The role of color in lighting for meat and poultry inspection / Belinda L. Collins, James A. Worthey. -. Collins, Belinda L. Worthey, James A. Washington, D.C. U.S. Dept. of Commerce, National Bureau of Standards 1984. "NBSIR 84-2829. ~"PB84-177823. ~"March 1984. ~"Sponsored by the U.S. Department of Agriculture." x, 77 p. ; ill. ; 28 cm. Bibliography: p. 75-77. (NAL Call No.: TS1975.C59).

2980

Role of fimbriae and flagella in the attachment of *Salmonella typhimurium* to poultry skin.

JFDAZ. Lillard, H.S. Chicago, Ill. : The Institute. The role of fimbriae and flagella in the mechanism of attachment of *S. typhimurium* to poultry skin was examined by using cells with (1) type 1 fimbriae (flagella present), (2) cells from which fimbriae and flagella were removed by physical means, (3) cells grown at 18 degrees C which produced relatively thick, mannose-sensitive type 1 fimbriae only, and (4) cells grown in the presence of D-mannose which produced thin, mannose-resistant fimbriae. When broiler skin was immersed in the above cell suspensions, *S. typhimurium* cells adhered firmly and equally well in all instances except that fewer cells attached when grown in the presence of D-mannose. When fimbriated and nonfimbriated cells were spread on broiler skin, thus avoiding effects of water uptake, cells attached, but in lower numbers than when skin was immersed in a cell suspensions. It was concluded that bacterial attachment to poultry skin is a complex phenomenon which involves mechanisms other than fimbriae, flagella or water uptake, though a combination of these and other factors may be involved. *Journal of food science : an official publication of the Institute of Food Technologists*. Jan/Feb 1986. v. 51 (1). p. 54-56, 85. ill. Includes references. (NAL Call No.: DNAL 389.8 F7322).

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***Salmonella*.**

Silliker, J.H. Gabis, D.A. Westport, Conn. : AVI Publishing Company. *Advances in meat research. Literature review*. 1986. v. 2. p. 209-229. Includes references. (NAL Call No.: DNAL TS1960.A33).

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***Salmonella* in eggs spreading from northeast.**

Washington, D.C. : Community Nutrition Institute. Abstract: *Salmonella enteritidis* has been found in clean, uncracked Grade A eggs originally believed to be free of contamination. The contamination is believed to be largely in the Northeastern states. USDA advises that consumers wash hands thoroughly before handling eggs, cook eggs thoroughly, and use only clean eggs with intact shells. *Nutrition week*. Sept 29, 1988. p. 6. (NAL Call No.: DNAL TX341.C6).

2983

***Salmonella* in meat and poultry products.**

Johnston, R.W. Ames : International Association of Milk, Food and Environmental Sanitarians, Inc. *Dairy and food sanitation*. Nov 1983. v. 3 (11). p. 415-417. (NAL Call No.: SF221.D342).

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***Salmonella* methodology update.**

POSCAL. Cox, N.A. Champaign, Ill. : Poultry Science Association. *Poultry science*. June 1988. v. 67 (6). p. 921-927. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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***Salmonella* recovery from poultry meat and chill water as affected by sample holding conditions and media.**

Cox, N.A. AR-RRC. Thomson, J.E.; Bailey, J.S. Champaign, Ill., Poultry Science Association. *Poultry science*. July 1980. v. 59 (7). p. 1596. (NAL Call No.: 47.8 AM33P).

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***Salmonellosis* control: estimated economic costs.**

POSCAL. Roberts, T. Champaign, Ill. : Poultry Science Association. *Poultry science*. June 1988. v. 67 (6). p. 936-943. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

2987

Sampling for precise microbiological plate counts on broiler chicken carcasses.

Klinger, I. Basker, D.; Juven, B.U. Champaign, Ill., Poultry Science Association. *Poultry science*. Mar 1981. v. 60 (3). p. 575-578. ill. 10 ref. (NAL Call No.: 47.8 AM33P).

2988

Sampling methods and frozen storage of samples for detection of *Campylobacter jejuni* on freshly processed broiler carcasses (Poultry meat).

Blankenship, L.C. JFPRD. Craven, S.E.; Chiu, J.Y.; Krumm, G.W. Ames : International Association of Milk, Food, and Environmental Sanitarians. *Journal of food protection*. June 1983. v. 46 (6). p. 510-513. Includes references. (NAL Call No.: 44.8 J824).

2989

Sampling methods for detection of *Salmonella* in raw chicken carcasses (Human foodborne diseases).

D'Aoust, J.Y. JFDSA. Stotland, P.; Boville, A. Chicago : Institute of Food Technologists. *Journal of food science*. Sept/Oct 1982. v. 47 (5). p. 1643-1644, 1729. Includes references. (NAL Call No.: 389.8 F7322).

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2990

Sampling of broiler carcasses for Salmonella with low volume water rinse.

Cox, N.A. Thomson, J.E.; Bailey, J.S.
Champaign, Ill., Poultry Science Association.
Poultry science. Apr 1981. v. 60 (4). p.
768-770. 15 ref. (NAL Call No.: 47.8 AM33P).

2991

Sanitation, shrinkage, and loading patterns for meat shipping vehicles (for the transportation and distribution of fresh meat products through marketing and distribution channels).

Hoke, K.E. Boca Raton, Fla., CRC Press. CRC handbook of transportation and marketing in agriculture. 1981. v. 1. p. 363-372. Includes 12 ref. (NAL Call No.: HD9000.5.C7).

2992

Screening tests for sulfa drugs and/or dinitrobenzamide coccidiostats and their monoamino metabolites in chicken livers.

JANCA2. Parks, O.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1985. v. 68 (1). p. 20-23. ill. Includes 9 references. (NAL Call No.: DNAL 381 AS7).

2993

Selected enrichment broths for recovery of Campylobacter jejuni from foods (Foodborne gastroenteritis).

Rothenberg, P.J. Stern, N.J.; Westhoff, D.C. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. July 1984. v. 48 (1). p. 78-80. Includes 11 references. (NAL Call No.: 448.3 AP5).

2994

Sensitive determination of ethopabate residues in chicken tissues by liquid chromatography with fluorometric detection.

JANCA2. Nagata, T. Saeki, M.; Nakazawa, H.; Fujita, M.; Takabatake, E. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1985. v. 68 (1). p. 27-28. Includes 7 references. (NAL Call No.: DNAL 381 AS7).

2995

Sensitive enzyme immunoassay of cephalixin residues in milk, hen tissues, and eggs.

JANCA2. Kitagawa, T. Gotoh, Y.; Uchihara, K.; Kohri, Y.; Kinoue, T.; Fujiwara, K.; Ohtani, W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Sept/Oct 1988. v. 71 (5). p. 915-920.

Includes references. (NAL Call No.: DNAL 381 AS7).

2996

Some characteristics of acid injury and recovery of Salmonella bareilly in a model system (Abstract only).

Blankenship, L.C. Ames, Iowa, International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Jan 1981. v. 1 (1). p. 46. (NAL Call No.: SF221.D342).

2997

Some epidemiological aspects of Salmonella contamination in poultry.

Samberg, Y. Klinger, I. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 48-53. Includes references. (NAL Call No.: DNAL SF809.S24I5 1984).

2998

Spectrofluorometric determination of BAY Vp 2674 residues in poultry tissues.

JANCA2. Waggoner, T.B. Bowman, M.C. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. Sept/Oct 1987. v. 70 (5). p. 813-818. Includes references. (NAL Call No.: DNAL 381 AS7).

2999

Spoilage of chicken skin at 2 degrees Celsius: electron microscopic study.

Thomas, C.J. McMeekin, T.A. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Feb 1981. v. 41 (2). p. 492-503. ill. 27 ref. (NAL Call No.: 448.3 AP5).

3000

Standard and experimental methods of identification and enumeration.

Chipley, J.R. Orlando : Academic Press, 1987. Abstract: This chapter is an outline of several of the established and experimental methods for the microbiological examination of foods, i.e., methods of detection and enumeration, sampling techniques, and evaluation of indicator microorganisms as a measure of food quality. Advantages and disadvantages associated with each method are discussed, as well as examples of foods or food products analyzed by each method. Since many of these methods have not yet been thoroughly evaluated for use with poultry products, foods other than poultry and

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analysis of some biological or clinical specimens have also been included; it is suggested that the choice of a particular method should be thoroughly evaluated on an individual basis by the food microbiologist. An appendix of detection, isolation, and enumeration methodologies--reviews of recent studies is included. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 43-192. ill., charts. Includes 1123 references. (NAL Call No.: DNAL QR117.M5).

3001

Staphylococci.

Evans, J.B. Westport, Conn. : AVI Publishing Company. Advances in meat research. 1986. v. 2. p. 231-239. Includes references. (NAL Call No.: DNAL TS1960.A33).

3002

Staphylococcus aureus growth and toxin production in nitrogen-packed sandwiches (Plastic-enclosed sausage, hamburger and turkey).

Bennett, R.W. Ames, W.T. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1982. v. 45 (2). p. 157-161. ill. Includes 20 ref. (NAL Call No.: 44.8 J824).

3003

Steam decontamination of whole and cut-up raw chicken.

POSCAL. Davidson, C.M. D'Aoust, J.Y.; Allewell, W. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1985. v. 64 (4). p. 765-767. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3004

Storage stability of Japanese quail (*Coturnix coturnix japonica*) eggs at room temperature.

POSCAL. Imai, C. Mowlah, A.; Saito, J. Champaign, Ill. : Poultry Science Association. Poultry science. Mar 1986. v. 65 (3). p. 474-480. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3005

Storage stability of liquid egg products below 0 C.

POSCAL. Imai, C. Saito, J.; Ishikawa, M. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1986. v. 65 (9). p. 1679-1686. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3006

Studies on the use of a long-acting oxytetracycline in turkeys: serum levels and tissue residues following injection.

AVDIA. Skeeles, J.K. Swafford, W.S.; Wages, D.P.; Hellwig, H.M.; Slavik, M.F.; Houghten, G.E.; Crawford, D.L. Kennett Square, Pa. : American Association of Avian Pathologists. Avian diseases. Jan/Mar 1985. v. 29 (1). p. 145-149. Includes 4 references. (NAL Call No.: DNAL 41.8 AV5).

3007

A study of the denaturation of egg white proteins during freezing using differential scanning calorimetry.

Wootton, M. Hong, N.T.; Thi, H.L.P. Chicago, Institute of Food Technologists. Journal of food science. Sept/Oct 1981. v. 46 (5). p. 1336-1338. ill. Includes 7 ref. (NAL Call No.: 389.8 F7322).

3008

Surveillance of sulfonamide residues in food-producing animals (Chickens, calves).

Woolley, J.L. Jr. Grace, M.E.; Sigel, C.W. New York : Wiley, c1980. Thin layer chromatography : quantitative environmental and clinical applications / edited by Joseph C. Touchstone, Dexter Rogers. p. 517-535. ill. 11 ref. (NAL Call No.: QP519.9.T55T45).

3009

Surveillance of the flow of salmonella and campylobacter in a community /prepared for United States Dept. of Health & Human Services, Public Health Service, Food and Drug Administration, Bureau of Veterinary Medicine ; by Communicable Disease Control Section, Seattle-King County Department of Public Health. --.

Seattle? : Seattle-King County Dept. of Public Health? , 1984. "Contract number: 223-81-7041."~ "August, 1984." 1 v. (various foliations) : ill. ; 28 cm. Bibliography: leaves 180-184. (NAL Call No.: DNAL RA644.S15S7).

3010

Survival and growth of *Campylobacter jejuni* in egg yolk and albumen.

JFPRDR. Clark, A.G. Bueschkens, D.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: *Campylobacter jejuni* will grow in egg yolk and in yolk-albumen melanges reaching populations in excess of 10(8) CFU/ml. Albumen alone is highly toxic, with D10 values of 2.4 h in vitro at 42 degrees C. Exposure to albumen in vitro is not reversed by later exposure to yolk; rather a substrate accelerated death effect is

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seen in the presence of added yolk. *C. jejuni* was generally more sensitive to gelatinous albumen than to less viscous albumen, although both forms of albumen inhibited motility after 6 h of incubation at 42 degrees C. Sensitivity to albumen was only partially due to the individual effects of pH or lysozyme. The major factor in the sensitivity of *C. jejuni* to egg white was the conalbumen as demonstrated by in vitro culture. (author). Journal of food protection. Feb 1986. v. 49 (2). p. 135-141. ill., charts. Includes 33 references. (NAL Call No.: DNAL 44.8 J824).

3011

Survival and growth of freeze-stressed *Campylobacter jejuni* cells in selective media.
Ray, B. Johnson, C. Westport, Conn. : Food & Nutrition Press. Journal of food safety. 1984. v. 6 (3). p. 183-195. Includes 2 p. references. (NAL Call No.: TP373.5.J62).

3012

Survival and growth of *Yersinia enterocolitica* in egg washwater.
JFPRDR. Southam, G. Pearson, J.; Holley, R.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1987. v. 50 (2). p. 103-107. Includes references. (NAL Call No.: DNAL 44.8 J824).

3013

Survival and transport of bacteria in egg washwater.
APMBA. Pearson, J. Southam, G.G.; Holley, R.A. Washington, D.C. : American Society for Microbiology. Applied and Environmental microbiology. Sept 1987. v. 53 (9). p. 2060-2065. Includes references. (NAL Call No.: DNAL 448.3 AP5).

3014

Survival of *Campylobacter jejuni* at different temperatures in broth, beef, chicken and cod supplemented with sodium chloride.
JFPRDR. Abram, D.D. Potter, N.N. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1984. v. 47 (10). p. 795-800. Includes 21 references. (NAL Call No.: DNAL 44.8 J824).

3015

Technical information from the Food Safety and Inspection Service. -.
United States ~ Food Safety and Inspection Service. (Washington, D.C.?) The Service 1983. Cover title ~"July 1983.". 10, (1) p. : forms ; 28 cm. (NAL Call No.: aTS1975.U535).

3016

Tetrachlorvinphos (pesticide) metabolism in laying hens.
Akhtar, M.H. Foster, T.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 766-771. ill. 15 ref. (NAL Call No.: 381 J8223).

3017

"The Salmonella situation in Canada".
Bentley, A.H. Kennett Square, Pa. : American Association of Avian Pathologists, Univ. of Pennsylvania, c1985. Proceedings of the International Symposium on Salmonella, New Orleans, Louisiana, U.S.A., July 19-20, 1984 / G.H. Snoeyenbos, editor. p. 54-61. (NAL Call No.: DNAL SF809.S24I5 1984).

3018

Thin-layer bioautographic assay for salinomycin in chicken liver.
JAFCAU. Dimenna, G.P. Walker, B.E.; Turnbull, L.B.; Wright, G.J. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. May/June 1986. v. 34 (3). p. 472-474. Includes references. (NAL Call No.: DNAL 381 J8223).

3019

Tissue residues of arprinocid in chickens. 1. Depletion of residues in tissues of chickens fed carbon-14-labeled arprinocid (Coccidiosis control preparations, meat contamination).
Jacob, T.A. Alvaro, R.F.; Chapin, L.R.; Green, M.L.; Meriwether, H.T.; Olson, G.; Van Iderstine, A.; Wolf, F.J. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1982. v. 30 (2). p. 248-253. Includes 7 ref. (NAL Call No.: 381 J8223).

3020

Tissue residues of arprinocid in chickens. 2. A common derivative approach for the analysis of residues in liver (Coccidiosis control preparation, meat contamination).
Carlin, J.R. Rosegay, A.; Wolf, F.J.; Jacob, T.A. Washington, D.C., American Chemical Society. Journal of agricultural and food

chemistry. Mar/Apr 1982. v. 30 (2). p. 253-257. ill. Includes 11 ref. (NAL Call No.: 381 J8223).

3021

Total lipids, fat composition, and malonaldehyde concentration in chicken liver, heart, adipose tissue, and plasma.
POSCAL. Pikul, J. Leszczynski, D.E.; Kummerow, F.A. Champaign, Ill. : Poultry Science Association. Poultry science. Mar 1985. v. 64 (3). p. 469-475. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3022

Toxic shock-like syndrome in hens and its relationship to shell-less eggs.
Roland, D.A. Sr. Mora, E.C.; Hoerr, F.J. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1984. v. 63 (4). p. 791-797. ill. Includes references. (NAL Call No.: 47.8 AM33P).

3023

Toxicology studies of irradiation-sterilized chicken.
JFPRDR. Thayer, D.W. Christopher, J.P.; Campbell, L.A.; Ronning, D.C.; Dahlgren, R.R.; Thomson, G.M.; Weirbicki, E. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1987. v. 50 (4). p. 278-288. Includes references. (NAL Call No.: DNAL 44.8 J824).

3024

Transfer of firmly attached P-Salmonella typhimurium from raw poultry skin to other surfaces.
JFPRDR. Carson, M.O. Lillard, H.S.; Hamdy, M.K. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1987. v. 50 (4). p. 327-329. Includes references. (NAL Call No.: DNAL 44.8 J824).

3025

Transfer of sludge-borne cadmium through plants to chickens.
JAFCAU. Hinesly, T.D. Hansen, L.G.; Bray, D.J.; Redborg, K.E. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Mar/April 1985. v. 33 (2). p. 173-180. Includes references. (NAL Call No.: DNAL 381 J8223).

3026

Transfer of thiocyanate into chicken eggs.
JTEHD6. Carew, S.N. Davis, R.H.; Sykes, A.H. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. 1986. v. 17 (4). p. 441-444. Includes references. (NAL Call No.: DNAL RA565.A1J6).

3027

Types of microorganisms associated with poultry carcasses.
Cunningham, F.E. Orlando : Academic Press, 1987. Abstract: This review discusses the incidence and distribution of pathogenic and nonpathogenic bacteria on processed poultry. Market poultry becomes contaminated to varying degrees due to sanitation practices in processing plants as well as later handling and retailing conditions. As a result, two major concerns are control of spoilage organisms which cause consumers to reject the product due to odor or flavor and minimization of pathogenic organisms which may, under faulty handling, cause health hazards. The primary microbes presented, although others are included, in this review are as follows: Salmonella, Staphylococcus, Clostridium, Campylobacter, and Yersinia enterocolitica. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 29-42. Includes 80 references. (NAL Call No.: DNAL QR117.M5).

3028

The U.S. Department of Agriculture meat and poultry antibiotic residue testing program.
ACSMC. Schwab, B. Brown, J. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. In the series analytic: Agricultural uses of antibiotics / edited by William A. Moats. 1986. (320). p. 137-141. (NAL Call No.: DNAL QD1.A45).

3029

Ultra trace determination of furazolidone in turkey tissues by liquid partitioning and high performance liquid chromatography (Drug residues).
Winterlin, W. Hall, G.; Mourer, C. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. Sept 1981. v. 64 (5). p. 1055-1059. ill. 4 ref. (NAL Call No.: 381 AS7).

3030

USDA adopts final rules for listing official establishment numbers (Meat and poultry inspection regulations).
Washington, D.C., The Office. Major news releases and speeches - United States Department of Agriculture, Office of

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Governmental and Public Affairs. July 2/9, 1982. July 2/9, 1982. p. 17-18. (NAL Call No.: aS21.A8U51).

3031

USDA expands testing for antibiotics at the slaughterhouse (meat and poultry carcasses inspection, residues).

Washington, The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Sept 17/24, 1982. Sept 17/24, 1982. p. 19-20. (NAL Call No.: aS21.A8U51).

3032

USDA inaugurates new program to modernize meat and poultry inspection in 3 plants (Secretary of Agriculture Bob Bergland).

Washington, D.C., The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Oct 27/31, 1980. Oct 27/31, 1980. p. 15-16. (NAL Call No.: aS21.A8U51).

3033

USDA monitors radiation of food imports.

Denver, Colo. : American School Food Service Association. Abstract: As part of its efforts to ensure that all meat sold in commerce is safe and wholesome, the USDA has taken steps to monitor meat and poultry products from countries affected by the nuclear accident at Chernobyl. These steps are reviewed. (jd-b). School foodservice journal. Aug 1986. v. 40 (6). p. 36. ill. (NAL Call No.: DNAL 389.8 SCH6).

3034

USDA regulation of residues in meat and poultry products.

JANSAG. Cordle, M.K. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1988. v. 66 (2). p. 413-433. maps. Includes references. (NAL Call No.: DNAL 49 J82).

3035

USDA to begin using new tests to detect sulfa residues (in meat and poultry).

Washington, D.C., The Office. Major news releases and speeches - United States Department of Agriculture, Office of Governmental and Public Affairs. Feb 5/19, 1982. Feb 5/19, 1982. p. 27-28. (NAL Call No.: aS21.A8U51).

3036

USDA's oversight of state meat and poultry inspection programs could be strengthened : report to the Honorable Thomas F. Eagleton and to the Honorable Lawton Chiles, United States Senate / by the U.S. General Accounting Office.

United States ~ General Accounting Office. Washington, D.C. The Office 1983. Cover title ~"GAO/RCED-84-23. ~"October 21, 1983.". vi, 41 p. : ill., map ; 28 cm. (NAL Call No.: HD9410.9.U5U53).

3037

Use of egg washwater pH to prevent survival of Salmonella at moderate temperatures.

POSCAL. Holley, R.A. Proulx, M. Champaign, Ill. : Poultry Science Association. Poultry science. May 1986. v. 65 (5). p. 922-928. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3038

The veterinarian's role in state meat and poultry inspection.

Ellis, H.D. Ames, Iowa : Iowa State University Press, 1986. Practices in veterinary public health and preventive medicine in the United States / edited by George T. Woods. p. 25-31. Includes references. (NAL Call No.: DNAL SF623.P73 1986).

3039

Viruses in meat and poultry products.

Cliver, D.O. Westport, Conn. : AVI Publishing Company. Advances in meat research. Literature review. 1986. v. 2. p. 379-396. Includes references. (NAL Call No.: DNAL TS1960.A33).

3040

Volatile indicators of deterioration in liquid egg products.

POSCAL. Brown, M.L. Holbrook, D.M.; Hoerning, E.F.; Legendre, M.G.; St Angelo, A.J. Champaign, Ill. : Poultry Science Association. Poultry science. Oct 1986. v. 65 (10). p. 1925-1933. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3041

Warning labels needed on poultry; NAS report silent on industry role.

Washington, D.C. : Community Nutrition Institute. Abstract: A brief report notes that a US National Academy of Sciences (NAS) committee recommended that warning labels be required on poultry slaughtered and sold in the US to alert consumers to the possible health risk from Salmonella and other bacteria present

in more than 33% of poultry in the US food system. It also was urged that the labels describe proper cooking and handling procedures that avoid food poisoning from contaminated poultry. However, the NAS committee could not recommend specific steps for the poultry industry to take to reduce bacterial contamination. The committee recommended that USDA adopt a new technique of risk assessment, but would not support USDA's desire to eliminate federal inspectors that USDA feels are unnecessary since they cannot see bacterial contamination.(wz). Nutrition week. May 14, 1987. v. 17 (20). p. 1-2. (NAL Call No.: DNAL TX341.C6).

3042

Weight change and spoilage of broiler carcasses--effect of chilling and storage methods (Chicken meat).

Thomson, J.E. Bailey, J.S.; Cox, N.A. Champaign : Poultry Science Association. Poultry science. Mar 1984. v. 63 (3). p. 510-517. Includes references. (NAL Call No.: 47.8 AM33P).

3043

What can the swine industry Do? (Brucellosis in Iowa).

Howe, R. Hindsdale, Ill., The Institute. Official proceedings: annual meeting - Livestock Conservation Institute. 1980. 1980. p. 92-94. (NAL Call No.: 280.3409 L75A).

3044

You must be joking--safe turkey shortcuts.

Fox, L. Washington, D.C. : U.S. Department of Agriculture. Abstract: Information is presented to help consumers in reducing risks of foodborne illness from turkeys. Specific guidelines are given on shopping, cooking, and serving tips, and for the safe storage of leftovers. A summary table highlighting these guidelines is included.(wz). Food news for consumers. 1987. v. 4 (4). p. 10-11. ill. (NAL Call No.: DNAL aTX501.F66).

FOOD CONTAMINATION, HORTICULTURAL CROP

3045

Contamination on the shells of eggs that are used in orange juice and sold in the streets.
39EJA. Villegas, T.V. Paz, R.A.; Flores, A. Davis : University of California. Proceedings - Western Poultry Disease Conference. 1987. (36th). p. 159. (NAL Call No.: DNAL SF995.W4).

3046

The effect of ethanol and wine on the plasma histamine level of chickens and man.
Lowenberg, D.W. Ough, C.S.; Lepkovsky, S.; Furuta, F.F. Davis, Calif., American Society of Enologists. American journal of enology and viticulture. 1981. v. 32 (2). p. 128-131. ill. 16 ref. (NAL Call No.: 390.9 AM33).

3047

Effects of feeding a carboxypeptidase inhibitor from potatoes to newly hatched chicks.
Pearce, G.PSEBA. McGinnis, J.; Ryan, C.A. New York : Academic Press. Proceedings of the Society for Experimental Biology and Medicine. July 1983. v. 173 (3). p. 447-453. ill. Includes references. (NAL Call No.: 442.9 S01).

3048

Mode of formation of aflatoxin in various nut fruits and gross and histologic effects of aflatoxins in animals (Liver as organ, rainbow trout, swine).
Cole, R.J.ACSMC. Sanders, T.H.; Blankenship, P.D.; Hill, R.A. Washington : The Society. ACS Symposium series - American Chemical Society. 1983. Based on a symposium sponsored by the Division of Agricultural and Food Chemistry at the 184th meeting of the American Chemical Society, Kansas City, Missouri, September 12-17, 1982. 1983. (234). p. 233-239. Includes references. (NAL Call No.: QD1.A45).

3049

Photodegradation of sulfa drugs by fluorescent light.
JANCA2. Parks, O.W. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Nov/Dec 1985. v. 68 (6). p. 1232-1234. ill. Includes 8 references. (NAL Call No.: DNAL 381 AS7).

FOOD CONTAMINATION, FISH AND AQUATIC

3050

Antimicrobial properties of lauricidin in mechanically deboned chicken, minced fish and chicken sausage.

Baker, R.C.JFSAD. Poon, W.; Kline, D.; Vadehra, D.V. Westport : Food & Nutrition Press. Journal of food safety. 1982. v. 4 (3). p. 177-184. 18 ref. (NAL Call No.: TP373.5.J62).

3051

Comparison of brands of media for isolating bacteria from poultry, beef and shrimp.

Lillard, H.S. Cox, N.A.; Bailey, J.S.; Thomson, J.E. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1984. v. 47 (5). p. 394-397. Includes references. (NAL Call No.: 44.8 J824).

3052

Evaluation of chicken embryo, brine shrimp, and bacterial bioassays for saxitoxin.

JTEHD6. Park, D.L. Aguirre-Flores, I.; Scott, W.F.; Alterman, E. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. 1986. v. 18 (4). p. 589-594. Includes references. (NAL Call No.: DNAL RA565.A1J6).

3053

Evaluation of five miniaturized systems for identifying Enterobacteriaceae from stock cultures and raw foods (Fresh ground beef, shrimp and whole, ready-to-cook chicken broilers).

Cox, N.A.JFPRD. Bailey, J.S.; Thomson, J.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1983. v. 46 (10). p. 914-916. Includes references. (NAL Call No.: 44.8 J824).

3054

Survival of Campylobacter jejuni at different temperatures in broth, beef, chicken and cod supplemented with sodium chloride.

JFPRDR. Abram, D.D. Potter, N.N. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Oct 1984. v. 47 (10). p. 795-800. Includes 21 references. (NAL Call No.: DNAL 44.8 J824).

FOOD PACKAGING

3055

Microbiological condition of broilers as influenced by vacuum and carbon dioxide in bulk shipping packs.

Bailey, J.S. AR-RRC. Reagan, J.O.; Carpenter, J.A.; Schuler, G.A. Chicago, Institute of Food Technologists. Extract: Effects of storage temperature, film permeability, carbon dioxide level and vacuum level on acceptability and shelf-life of fresh-processed poultry were determined. Significantly lower microbial counts and extended shelf-life were found when storage was at 2 degrees C instead of 5 degrees C, after 12 days storage when low permeable packaging film was used instead of high permeable film and after 15 days of storage when 65 percent CO (sub 2) was used instead of 20 percent CO (sub 2). Gra. Journal of food science. Jan/Feb 1979. v. 44 (1). p. 134-137. ill., charts. 25 ref.

3056

Survival of Campylobacter jejuni in selected gaseous environments.

JFDAZ. Stern, N.J. Greenberg, M.D.; Kinsman, D.M. Chicago, Ill. : The Institute. Vacuum-packaged and oxygen-permeable, polyvinyl chloride film wrapped broiler chickens were compared with one another to determine influence on the survival of Campylobacter jejuni. No significant (P less than 0.01) difference in the survival of C. jejuni was observed, irrespective of the packaging system assessed by either surface rinse or drip sampling. Significantly (P less than 0.01) greater numbers of the organism were recovered by surface rinse sampling in both packaging systems when compared with the numbers obtained from drip sampling. Recovery of indigenous Campylobacter from red meat carcass samples was greater in the vacuum packaged samples (19/63) than in the oxygen permeable wrapped samples (7/63) after the samples were held at refrigeration temperatures for 1 wk. Significantly (P less than 0.01) greater survival of C. jejuni in ground beef was demonstrated in a 100% nitrogen atmosphere when compared with a vacuum, a 80% carbon dioxide and 20% nitrogen atmosphere or a 5% oxygen, 10% carbon dioxide and 85% nitrogen atmosphere. These results indicate that the organism survives at variable rates in different atmospheres, but these differences were relatively small and unlikely to impact on the public health. Journal of food science : an official publication of the Institute of Food Technologists. May/June 1986. v. 51 (3). p. 652-654. Includes references. (NAL Call No.: DNAL 389.8 F7322).

FOOD PACKAGING, LIVESTOCK

3057

Methods of chilling and packaging beef, pork and lamb variety meats for transoceanic shipment: Microbiological characteristics.
JFPRDR. Vanderzant, C. Hanna, M.O.; Ehlers, J.G.; Savell, J.W.; Griffin, D.B.; Johnson, D.D.; Smith, G.C.; Stiffler, D.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: The effect of various initial chilling treatments on the numbers and types of microorganisms of beef, pork and lamb tongues and livers packaged either in polyethylene (PE) film or in vacuum packages in Texas and transported fresh-chilled via transoceanic shipment to Antwerp, Belgium, was evaluated. Initial chilling treatments included: cooler-tempered, cooler-chilled freezer-tempered, freezer-chilled, ice-chilled and no prechilling (NPC) before packaging and subsequent refrigerated storage at 2 C. After the initial chilling treatments, the microflora was varied with micrococcus spp. with or without coryneform bacteria being the predominant bacterial types of most samples. After refrigerated storage for 13 to 15 days, lactic acid bacteria became dominant in most vacuum-packaged samples and in pork and lamb samples stored in PE film. Brochotrix thermosphacta and Pseudomonas spp. constituted a greater part of the microflora of beef tongues and livers stored in PE film than that of comparable vacuum-packaged samples. Increases in aerobic plate counts (APC) of refrigerated vacuum-packaged samples nearly always were greatest for samples (NPC) that were not pre-chilled before packaging and usually were smallest for samples that were either freezer-chilled, freezer-tempered or ice-chilled. (author). Journal of food protection. Sept 1985. v. 48 (9). p. 765-769. charts. Includes 8 references. (NAL Call No.: DNAL 44.8 J824).

3058

Staphylococcus aureus growth and toxin production in nitrogen-packed sandwiches (Plastic-enclosed sausage, hamburger and turkey).
Bennett, R.W. Amos, W.T. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Feb 1982. v. 45 (2). p. 157-161. ill. Includes 20 ref. (NAL Call No.: 44.8 J824).

FOOD PACKAGING, POULTRY

3059

Campylobacter jejuni in vacuum packaged processed turkey.

JFPRDR. Reynolds, G.N. Draughon, F.A. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1987. v. 50 (4). p. 300-304. Includes references. (NAL Call No.: DNAL 44.8 J824).

3060

Effect of carbon dioxide flushing and packaging methods on the microbiology of packaged chicken.

JFDAZ. Thomas, Y.O. Kraft, A.A.; Rust, R.E.; Hotchkiss, D.K. Chicago, Ill. : Institute of Food Technologists. Abstract: Bacterial contaminants, odor, and slime were determined in dry-packed chicken broilers packaged by 3 different methods (carbon dioxide flushing; vacuum packaging; conventional stretch wrapping in air), stored in a display case at about 5 degrees C for up to 17 days. Carbon dioxide flushing produced the longest shelf life (with stretch wrapping in air, the least) and resulted in a unique snug package analogous to vacuum packaging. No differences in microbiological quality were noted between chicken located at the top and bottom of the package. (wz). Journal of food science. "Presented at the 43rd Annual Meeting of the Institute of Food Technologists, New Orleans, LA, June 1983." Sept/Oct 1984. v. 49 (5). p. 1367-1371. ill., charts. Includes 24 references. (NAL Call No.: DNAL 389.8 F7322).

3061

The effect of carbon dioxide packaging on detection of Campylobacter jejuni from chicken carcasses.

POSCAL. Wesley, R.D. Stadelman, W.J. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1985. v. 64 (4). p. 763-764. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3062

The influence of packaging in flexible films and light on the shelf-life of fresh chicken broiler carcasses.

Igbinedion, J.E. Orr, H.L.; Johnston, R.A.; Gray, J.I. Champaign, Ill., Poultry Science Association. Poultry science. May 1981. v. 60 (5). p. 950-955. 26 ref. (NAL Call No.: 47.8 AM33P).

3063

Investigation of nitrite and nitrate levels in paper materials used to package fresh meat.

JAFCAU. Scriven, F. Sporns, P.; Wolfe, F. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1987. v. 35 (2). p. 188-192. Includes references. (NAL Call No.: DNAL 381 J8223).

3064

Mutagenesis testing of acetyl-tributylcitrate and epoxidized soybean oil (Salmonella typhimurim, plasticizers, poultry meat wrapping).

Heath, J.L. POSCA. Reilly, M. Champaign : Poultry Science Association. Poultry science. Dec 1982. v. 61 (12). p. 2517-2519. 9 ref. (NAL Call No.: 47.8 AM33P).

3065

Packaging materials for use during the ionizing irradiation sterilization of prepackaged chicken products / J.J. Killoran. -.

Killoran, J. J. Natick, Mass. U.S. Army Natick Research and Development Command, Food Engineering Laboratory (1979?). "ERRC-ARS 82.". 1 v. (various pagings) : ill. ; 28 cm. Includes bibliographies. (NAL Call No.: TX556.P9K53).

FOOD ADDITIVES

3066

The antibiotic growth effect.

Jukes, T.H. Boca Raton, Fla. : CRC Press. CRC handbook series in zoonoses. Section A: Bacterial, rickettsial, and mycotic diseases. 1984. v. 1. p. 59-73. Includes references. (NAL Call No.: DNAL RC115.C7).

3067

Botulism from meat and poultry products--A historical perspective.

Tompkin, R.B. Chicago, Institute of Food Technologists. Abstract: Efforts to discontinue use of nitrite in foods, because carcinogenic nitrosamines may be formed in cured meat, raises the question of the role that nitrite plays in prevention of botulism. Among the recorded outbreaks of botulism in the US and Canada from meat and poultry products, 51 were caused by home processed meats and 15 by commercially manufactured meats. Although there are many more outbreaks recorded in other countries, the case-fatality-ratio is lower in Europe. Pork products are a major source of botulism, probably because they are processed more often than meat and poultry, which is usually consumed fresh. Botulism prevention in meats is still poorly understood. Surveys measuring botulism in meat and poultry products found the incidence to be low, but total absence from meat is unlikely. Although the risk of botulism varies throughout the world, the risk is clearly present. (kbc). Food technology. May 1980. v. 34 (5). p. 229-236, 257. charts. 72 ref. (NAL Call No.: 389.8 F7398).

3068

Effects of xylitol on the absorption of 203Pb in mice and cockerels.

BECTA. Mykkanen, H.M. Salminen, S.J. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. July 1986. v. 37 (1). p. 77-80. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

3069

Food. J. Haag. -.

Haag, Jessie Helen. Warrington, PA. DCA Educational Products 1969. Abstract: The concepts of safety and protection for consumers by the FDA is presented at a high school level. Before 1906, food was stored in open bins and controls were lacking on adulteration and labeling. Present day laws provide for federal inspection, focusing on rats and rodent control as possible sources of contamination. Food handling, from farm to kitchen, presents many opportunities for contamination. Standards and labels also come under FDA inspection. Additives can be very useful to inhibit growth of unwanted organisms, such as mold, some of which are potentially toxic. Pesticides are an unintentional additive, and must be carefully

controlled. Studies are continuing on tolerable levels of toxicity. A chicken egg demonstration shows how students can test for various additives. Includes (1) How safe is our food, transparencies F-1 to F-5; (2) Additives in our food, transparencies F-11 to F-15. (NAL Call No.: TP455.F62 F&N AV).

3070

Influence of the growth of psychrophilic microorganisms on the flavor and selected chemical components of chicken meat / by Morris Glen Mast. -.

Mast, Morris Glen, 1940-. 1971. Thesis (Ph.D.)--Ohio State University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. vii, 116 leaves ; 21 cm. Bibliography: leaves 106-116. (NAL Call No.: DISS 72-4,562).

3071

Nitrate, nitrite, and nitroso compounds in foods.

FOTEA. Chicago, Ill. : Institute of Food Technologists. Abstract: A detailed scientific review summarizes and discusses current knowledge on the formation and occurrence of nitroso compounds in foods. Topics include: the history of meat curing with nitrate and its bacterial conversion to nitrite; regulation of the use of nitrate and nitrite as meat, poultry, and fish curing agents; the chemistry of curing; microbiological aspects of nitrite; nitrite substitutes; the chemical conversion of nitrite to nitrosamines and nitrosamides; the biological (carcinogenic) activity of nitroso compounds; major analytical surveys on the presence of nitroso compounds in foods; sources of nitrosamines in foods; nitrosamine formation during food processing; indirect addition of nitrosamines into foods from contact surfaces or from food additives; the formation of nitroso compounds in the human body from ingested foods containing nitrate and nitrite; and nonvolatile nitroso compounds in foods. The health implications of nitrite and nitroso compounds in foods also are discussed. (wz). Food technology. Apr 1987. v. 41 (4). p. 127-134, 136. ill., charts. Includes 71 references. (NAL Call No.: DNAL 389.8 F7398).

3072

Toxicity and teratogenicity of food additive chemicals in the developing chicken embryo.

Verrett, M.J. Scott, W.F.; Reynaldo, E.F.; Alterman, E.K.; Thomas, C.A. New York, Academic Press. Toxicology and applied pharmacology. Nov 1980. v. 56 (2). p. 265-273. 8 ref. (NAL Call No.: 391.8 T662).

FOOD ADDITIVES, LIVESTOCK

3073

**Antioxidant activity of onion and garlic juices
in stored cooked ground lamb.**

JFPRDR. Jurdi-Haldeman, D. MacNeil, J.H.;
Yared, D.M. Ames, Iowa : International
Association of Milk, Food, and Environmental
Sanitarians. Journal of food protection. May
1987. v. 50 (5). p. 411-413, 417. Includes
references. (NAL Call No.: DNAL 44.8 J824).

FOOD ADDITIVES, POULTRY

3074

Antimicrobial activity of butylated hydroxyanisole and potassium sorbate against natural microflora in raw turkey meat and *Salmonella typhimurium* in cooked turkey meat. Morad, M.M. Granen, A.L.; Brekke, C.J. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1982. v. 45 (11). p. 1038-1040. 10 ref. (NAL Call No.: 44.8 J824).

FOOD COMPOSITION

3075

Characteristics of some radiation-resistant hemolytic micrococci isolated from chicken.

Welch, Ardyce B. Maxcy, R.B. Chicago, Institute of Food Technologists. Abstract: Highly radiation-resistant asporogenous bacteria that were hemolytic were isolated from chicken and were studied to evaluate their significance in irradiation processing of food. The morphology, growth, and physiological characteristics were similar to common micrococci. Some differences were found in pigmentation, nitrate reduction, hydrolysis of proteins, and salt tolerance. None of the presently recognized characteristics appeared to be linked to radiation resistance. Apparently the. *Journal of food science*. May/June 1979. v. 44 (3). p. 673-675. ill., charts. 8 ref.

3076

Food laws and regulations.

Aurand, L.W. Woods, A.E.; Wells, M.R. New York, N.Y. : Van Nostrand Reinhold, c1987. Abstract: A brief report outlines and discusses US laws and regulations concerning the safety and quality of food products. Topics include: the historical development of key US federal food laws (Food and Drugs Act of 1906; Food, Drug, and Cosmetic Act of 1938; and its amendments (regarding food and color additives and pesticide residues)); other FDA regulations, guidelines, and action levels (including meat/poultry inspection, food labeling and nutritional quality, good manufacturing practices, and recall guidelines); and the authorities of various other US federal agencies for regulating foods. A special section focuses on the definition of and conditions for approval of food additives. A listing of representative food additives approved for US use is appended.(wz). *Food composition and analysis* / Leonard W. Aurand, A. Edwin Woods, Marion R. Wells. p. 1-18. charts. Includes 8 references. (NAL Call No.: DNAL TX531.A9).

3077

Influence of the growth of psychrophilic microorganisms on the flavor and selected chemical components of chicken meat / by Morris Glen Mast. -.

Mast, Morris Glen, 1940-. 1971. Thesis (Ph.D.)--Ohio State University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. vii, 116 leaves ; 21 cm. Bibliography: leaves 106-116. (NAL Call No.: DISS 72-4,562).

3078

Method to rapidly enumerate Salmonella on chicken carcasses.

JFPRDR. Hawa, S.G. Morrison, G.J.; Fleet, G.H. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: A method for rapid enumeration of Salmonella on chicken carcasses was developed. Carcass rinses were centrifuged to sediment and concentrate Salmonella and other microbial cells. After washing and resuspending the pelleted cells to 1.0 ml, Salmonella was selectively isolated and differentiated from other species by plating onto newly developed dulcitol bile novobiocin agar. Rapid lysine decarboxylase and ONPG tests were developed for biochemical confirmation of presumptive Salmonella colonies. Fully confirmed Salmonella counts were obtained within 48 h. The new method gave Salmonella counts and detection rates that were significantly higher than those found by conventional enrichment, plating procedures. (author). *Journal of food protection*. Dec 1984. v. 47 (12). p. 932-936. charts. Includes 13 references. (NAL Call No.: DNAL 44.8 J824).

3079

Provide for a research program to examine and enhance agricultural production and food processing systemshearing before the Subcommittee on Livestock, Dairy, and Poultry of the Committee on Agriculture, House of Representatives, One Hundredth Congress, second session, on H.R. 3735, March 24, 1988.

United States.~Congress.~House.~Committee on Agriculture.~Subcommittee on Livestock, Dairy, and Poultry. Washington, D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1988. Distributed to some depository libraries in microfiche.~ "Serial no. 100-68.". iv, 516 p. : ill. ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF27.A366 1988a).

3080

Quality control in small plants--a guide for meat and poultry processors.

Washington, D.C., The Service. Agriculture handbook - United States Department of Agriculture, Food Safety and Inspection Service. June 1981. June 1981. (586). 18 p. ill. (NAL Call No.: 1 AG84AH).

3081

Shelf-life and quality characteristics of poultry parts dipped in potassium sorbate.

Cunningham, F.E. Chicago, Institute of Food Technologists. Abstract: Fresh broiler poultry parts were dipped 30 or 60 seconds in solutions of 5.0%, 10.0% or 15% potassium sorbate or distilled water. Parts dipped in 10% potassium sorbate had a 20-day shelf-life at 4 C., based on off-odor development and plate counts. Those parts dipped in potassium sorbate for 30

seconds, drained, then baked had similar tenderness and moisture retention values regardless of the sorbate concentration used. Solutions of 5 or 10% potassium sorbate used as a dip for 30 secon. Journal of food science. May/June 1979. v. 44 (3). p. 863-864. charts. 15 ref.

FOOD COMPOSITION, DAIRY

3082

Aerobic mesophilic and psychrotrophic sporeforming bacteria in buffalo milk.

Shehata, A.E.JDSCA. Magdoub, M.N.I.; Sultan, N.E.; El-Samragy, Y.A. Champaign : American Dairy Science Association. Journal of dairy science. June 1983. v. 66 (6). p. 1228-1231. ill. Includes references. (NAL Call No.: 44.8 J822).

3083

Bacillus stearothermophilus disk assay detection of penicillin in milk of dairy cows after postestruai intrauterine infusion (Antibiotic residues).

McClary, D.G.AJVRH. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Mar 1984. v. 45 (3). p. 416-419. Includes references. (NAL Call No.: 41.8 AM3A).

3084

Bacteriological and biochemical characteristics of various types of yogurt made from sheep's and cow's milk.

JFPRDR. Kehagias, C.H. Dalles, T.N. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Bacteriological and biochemical characteristics of various types of commercial yogurt were examined. Laboratory-scale preparations of yogurt from sheep's and cow's milk were also performed to study the above characteristics under controlled conditions. The viable counts of Streptococcus thermophilus and Lactobacillus bulgaricus, in most instances, exceeded 10-8th/ml. During storage at 5 to 7C for 2 weeks, the average viable counts decreased in both commercial yogurts and those prepared in laboratory. The average lactase activity declined only in the commercial yogurts during cold storage. Yogurt from sheep's milk had double the lactase activity of cow's milk yogurt. (author). Journal of food protection. Oct 1984. v. 47 (10). p. 760-761. charts. Includes 4 references. (NAL Call No.: DNAL 44.8 J824).

3085

Effect of incubation temperature and heat treatments of milk from cow and buffalo on acid and flavor production by Streptococcus thermophilus and Lactobacillus bulgaricus.

Singh, J. Khanna, A.; Chander, H. Ames, Iowa, International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1980. v. 43 (5). p. 399-400. 13 ref. (NAL Call No.: 44.8 J824).

3086

Effect of mastitis on proteolytic activity in bovine milk.

JDSCAE. Saeman, A.I. Verdi, R.J.; Galton, D.M.; Barbano, D.M. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Feb 1988. v. 71 (2). p. 505-512. Includes references. (NAL Call No.: DNAL 44.8 J822).

3087

Environmental effects on mastitis and milk quality (Dairy cows, bacterial contamination, free stall housing).

Jarrett, J.A. Philadelphia, Pa. : W.B. Saunders. The veterinary clinics of North America. July 1984. Paper presented at the "Symposium on Bovine Mastitis," July 1984. v. 6 (2). p. 371-375. ill. Includes references. (NAL Call No.: SF601.V534).

3088

Inhibition of growth of spoilage microorganisms by Streptococcus thermophilus and Lactobacillus acidophilus in cow, buffalo and goat milk.

Singh, J.JFPRD. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. June 1983. v. 46 (6). p. 497-498. Includes references. (NAL Call No.: 44.8 J824).

3089

Iodine in field milk samples and effects on mastitis organisms (Lactating cows).

Ruegsegger, G.J.JDSCA. Kuehn, P.; Schultz, L.H. Champaign : American Dairy Science Association. Journal of dairy science. Sept 1983. v. 66 (9). p. 1976-1979. Includes references. (NAL Call No.: 44.8 J822).

3090

Keeping quality and flavor, and microorganisms, proteases and lipases in raw cow and goat milk at collection and after storage.

Hankin, Lester. Shields, Donald. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Raw cow and goat milks for retail sale in Connecticut were examined at collection and after storage at 4.4 and 7.2 degrees C for 7 days for keeping quality, flavor, microorganisms, protein degradation on storage, and protease and lipase activity. Some milks were bottled at the farm, others were placed in containers supplied by the customer. Goat milk retained a satisfactory flavor significantly longer than cow milk. There was no correlation of keeping quality with any microbial count made at collection except for number of coliform bacteria. Significant differences were found in enzyme activity and protein degradation between cow and goat milk. No significant difference was

found between milk bottled at the farm and that collected in sterile containers. Over 82% of raw milk samples met the 30,000 per ml state standard for total aerobic count (SPC) and 72% met the coliform standard of 50 per ml. (author). Journal of food protection. Oct 1983. v. 46 (10). p. 873-877. charts. Includes 13 references. (NAL Call No.: 44.8 J824).

3091

Protein composition of whey from subclinical mastitis and effect of treatment with levamisole (Dairy cows).

Ishikawa, H. Shimizu, T.; Hirano, H.; Saito, N.; Nakano, T. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Apr 1982. v. 65 (4). p. 653-658. ill. Includes 36 ref. (NAL Call No.: 44.8 J822).

3092

Sources and content of iodine in California milk and dairy products.

Bruhn, J.C. Franke, A.A.; Bushnell, R.B.; Weisheit, H.; Hutton, G.H.; Gurtle, G.C. Ames : International Association of Milk, Food, and Environmental Sanitarians. Extract: In recent years, milk and milk products have been implicated as a major contributor to dietary iodine. The possible sources of iodine in milk are supplemental iodine in dairy feeds, iodophor-containing sanitizers used at the dairy farm (and/or at the processing plant), iodophor-containing teat dips used to control the spread of mastitis among dairy cows, and iodine-containing medications used by veterinarians. A 5-year program to determine California raw milk iodine concentrations and identify the sources of adventitious iodine resulted in a California dairy industry decision late in 1980 to reduce iodine supplementation of dairy feeds. This decision resulted in a decrease in milk mean iodine concentration from 474 micrograms/kg in 1980 to 256 micrograms in 1981. The industry has set up a program to monitor raw milk iodine concentrations at the producer level to ensure that concentrations will continue to decline. (author/wz). Journal of food protection. Jan 1983. "Research supported in part by a grant from the Dairy Council of California.". v. 46 (1). p. 41-46. ill., charts. Includes 32 references. (NAL Call No.: 44.8 J824).

3093

Teat dips: use right or invite Uncle Sam.

DHMG. Annexstad, J. Minnetonka, Minn. : Miller Publishing Co. Dairy herd management. Apr 1988. v. 25 (4). p. 12-13, 16, 18-19. ill. (NAL Call No.: DNAL SF191.D3).

FOOD COMPOSITION, LIVESTOCK

3094

Antioxidant activity of onion and garlic juices in stored cooked ground lamb.

JFPRDR. Jurdi-Haldeman, D. MacNeil, J.H.; Yared, D.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1987. v. 50 (5). p. 411-413, 417. Includes references. (NAL Call No.: DNAL 44.8 J824).

steaks in an oxygen-permeable overwrap than for those vacuum-packed. Analysis revealed, however, that aerobic, anaerobic, lactobaccilli, and psychrotrophic bacterial counts increased throughout a 6-week storage period for vacuum-packed steaks.(wz). Journal of food science. July/Aug 1987. v. 52 (4). p. 861-864, 868. charts. Includes 54 references. (NAL Call No.: DNAL 389.8 F7322).

3095

Early detection of Clostridium perfringens enterotoxin and its relationship to sensory quality of cooked chicken.

JFSAD. Al-Obaidy, H.M. Khan, M.A.; Blaschek, H.P.; Klein, B.P. Westport, Conn. : Food & Nutrition Press. Journal of food safety. Apr 1985. v. 7 (1). p. 43-55. Includes references. (NAL Call No.: DNAL TP373.5.J62).

3099

A program for residue avoidance on an Illinois pork farm.

Pate, S.R. Kansas City, Mo.? : The Association. Proceedings of annual meeting - American Association of Swine Practitioners. Meeting held on March 16-18, 1986, Minneapolis, Minnesota. 1986. p. 373-374. (NAL Call No.: DNAL SF971.A44).

3096

Federal regulation of meat and poultry products--increased consumer protection and efficiencies needed report to the Congress /by the Comptroller General of the United States.

United States.~General Accounting Office. Washington, D.C. : United States General Accounting Office, 1983 . Cover title.~ "May 4, 1983."~ "GAO/RCED-83-68."~ "B-209696"--Prel. p. vi, 42 p. ; 28 cm. (NAL Call No.: DNAL TS1975.U63).

3097

Microbial decontamination of calf carcasses by lactic acid sprays.

JFPRDR. Woolthuis, C.H.J. Smulders, F.J.M. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Literature review. Oct 1985. v. 48 (10). p. 832-837. Includes 56 references. (NAL Call No.: DNAL 44.8 J824).

3098

Microbiological quality of restructured and conventional steaks manufactured from electrically stimulated hot- and cold-boned carcasses.

JFDAZ. Newsome, R.L. Seman, D.L.; Langlois, B.E.; Moody, W.G.; Fox, J.D.; Gay, N. Chicago, Ill. : Institute of Food Technologists. Abstract: A study compared the microbiological quality of restructured and conventional (intact muscle) steaks produced from electrically-stimulated hot- and cold-boned carcasses of 10 market steers. The results indicated that bacterial counts were higher in restructured than in conventional steaks, and higher (except for enterobacteria and staphylococci) in hot-boned than in cold-boned carcass steaks. Analysis of steaks stored for 1 week revealed higher bacterial counts for

FOOD COMPOSITION, POULTRY

3100

Animal feeding study for irradiated sterilized chicken / submitted to U.S. Army Medical Research and Development Command by Research 900 Laboratories, Ralston Purina Co. -.
Thomson, G. M.; Dahlgren, R. R.; Ronning, D. C. St. Louis, Mo. Research 900 1976-1980. Consists of the first through fifteenth quarterly reports of the project ~Study continued by Raltech Scientific Services which changed its name from Research 900 Laboratories in 1978 ~First five reports submitted by G.M. Thomson, subsequent reports submitted by R.R. Dahlgren and D.C. Ronning ~"Contract no. DAMD17-76-C-6047.". 41 v. : ill. (some col.) ; 30 cm. (NAL Call No.: TX556.P9A55).

3101

Animal feeding study for irradiation sterilized chicken : a chronic toxicity, oncogenicity, and multigeneration reproductive study using CD-1 mice to evaluate the wholesomeness of frozen, thermally sterilized, Cobalt-60 irradiated, and 10MeV electron irradiated chicken meat : draft final report / submitted to U.S. Department of Agriculture as part of contract 3-3K06-1-29 by Ralston Purina Company. -.
St. Louis, Mo. The Company 1982. 14 v. : ill. ; 30 cm. Includes bibliographies. (NAL Call No.: TX556.P9A552).

3102

Animal feeding study protocol for irradiation sterilized chicken. --.
Washington, D.C. Office for Wholesomeness of Irradiated Foods, US Army Medical Research & Development Command, 1975? . "17 Jun 1975.". 1 v. (various foliations) ; 27 cm. Includes bibliographies. (NAL Call No.: DNAL TX556.P9A54).

3103

Application of the Ames mutagenicity test for the assessment of mutagenic activity in thermal processed, frozen, electron irradiated, and gamma irradiated chicken.
St. Louis, Mo. Raltech Scientific Services 1980. "February 5, 1980. ~"Performing organization report no. ERRC-ARS 72. ~"Project no. 1402-20820-029". vii, 99 p. Includes bibliographical references. (NAL Call No.: Fiche 158).

3104

Changes in the ultrastructure of egg yolk by the growth of Streptococcus faecalis var liquefaciens.
Gravani, R.B.JFDSA. Vadehra, D.V.; Hood, L.F.; Baker, R.C. Chicago : Institute of Food Technologists. Journal of food science. Sept/Oct 1982. v. 47 (5). p. 1435-1437. ill.

Includes references. (NAL Call No.: 389.8 F7322).

3105

A chronic toxicity, oncogenicity, and multigeneration reproductive study using CD-1 mice to evaluate frozen, thermally sterilized, cobalt-60 irradiated, and 10 Mev electron irradiated chicken meat submitted by Ralston Purina Company to U.S. Department of Agriculture, Agricultural Research Service, Eastern Regional Research Center ... in partial fulfilment of Contract 53-3K06-1-29, Animal feeding study for irradiation sterilized chicken ; (Contributors D.C. Ronning ... (et al.)). -.
Ronning, Danny C. & Animal feeding study for irradiation sterilized chicken; (microform). St. Louis, Mo. The Company 1983. Final report June 1, 1976 to June 1983 ~Contract nos. DAMD 17-76-C-6047, USDA 53-3K06-1-29; Project no. 1402-20820-029. Performing organization report no. ERRC-ARS 41-54 ~Project sponsored by Eastern Regional Research Center, ARS, USDA ~"Consists of 14 volumes. V.1 contains the text of the report. The remaining vols. 2-14 contain the experimental values. The protocol for the study is not described and reference must be made to the protocol, "Animal feeding study protocol for irradiation sterilized test foods" submitted to FDA March 1984. 14 v. : ill. Bibliography: p. 112-113 (v. 1). (NAL Call No.: Fiche 151).

3106

Comparison of sampling methods and implications for bacterial decontamination of poultry carcasses by rinsing.
JFPRDR. Lillard, H.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. May 1988. v. 51 (5). p. 405-408. Includes references. (NAL Call No.: DNAL 44.8 J824).

3107

Comparison of sampling methods for Escherichia coli and total aerobic counts on broiler carcasses (Poultry meat).
Lillard, H.S.JFPRD. Thomson, J.E. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1983. v. 46 (9). p. 781-782. Includes references. (NAL Call No.: 44.8 J824).

3108

Concentration of nitrate and nitrite in raw turkey breast meat and the microbial conversion of added nitrate to nitrite in tumbled turkey breast meat.
POSCAL. Ahn, D.U. Maurer, A.J. Champaign, Ill. : Poultry Science Association. Poultry science.

(FOOD COMPOSITION, POULTRY)

Dec 1987. v. 66 (12). p. 1957-1960. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3109

Detection of spoiled eggs using a new type of inspection apparatus.

Imai, C.POSCA. Saito, J. Champaign : Poultry Science Association. Poultry science. Feb 1983. v. 62 (2). p. 331-337. Includes references. (NAL Call No.: 47.8 AM33P).

3110

Dominant lethal study : final report / submitted to: U.S. Department of Agriculture, R.B. Russel (i.e. Russell) Research Center, to meet the requirements of contract 53-3K06-29 ; by Raltech Scientific Services. -

St. Louis, Mo. Raltech Scientific Services 1981. "7 June 1978 to 28 November 1978, conducted to meet requirements of contract DAMD17-76-C-6047, specified in the Animal feeding study protocol for irradiation sterilized test foods, dated 21 October 1975. ~"ERRC-ARS 68. ~"March 1981.". iii, 31, 6, 33, 26 p. ; 28 cm. Bibliography: p. 20. (NAL Call No.: TX556.P9D64).

3111

Effect of antibiotics on intestinal microflora and flavor of broiler meat.

Sheldon, B.W. Essary, E.O. Champaign, Ill., Poultry Science Association. Poultry science. Feb 1982. v. 61 (2). p. 280-287. ill. Includes 19 ref. (NAL Call No.: 47.8 AM33P).

3112

Effect of dry heat on the internal quality of eggs.

POSCAL. Vadehra, D.V. Baker, R.C.; Naylor, H.B. College Station, Tex. : Poultry Science Association. Poultry science. May 1969. v. 48 (3). p. 1051-1054. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3113

Effect of feeding CGA-72662 (Larvadex) during growth on body weight, feed consumption, livability, production, and egg quality of Single Comb White Leghorn layers.

POSCAL. Brake, J. Berry, W.D.; Peebles, E.D.; Ort, J.F.; Campbell, W.R. Champaign, Ill. : Poultry Science Association. Poultry science. Feb 1985. v. 64 (2). p. 247-252. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3114

The effect of hand-held inside bird washers on turkey carcass hygienic quality.

Wesley, R.L.POSCA. Bovard, K.P. Champaign : Poultry Science Association. Poultry science. Feb 1983. v. 62 (2). p. 338-340. Includes references. (NAL Call No.: 47.8 AM33P).

3115

Effects of feeding hens a high level of vomitoxin-contaminated corn on performance and tissue residues.

POSCAL. Lun, A.K. Young, L.G.; Moran, E.T. Jr.; Hunter, D.B.; Rodriguez, J.P. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1095-1099. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3116

The efficacy of chlorine dioxide in controlling Salmonella contamination and its effect on product quality of chicken broiler carcasses.

Thiessen, G.P. Osborne, W.R.; Orr, H.L. Champaign, Ill. : Poultry Science Association. Poultry science. Apr 1984. v. 63 (4). p. 647-653. ill. Includes references. (NAL Call No.: 47.8 AM33P).

3117

Electrophoretic and chromatographic changes in egg yolk proteins due to heat (Pasteurization).

Dixon, D.K. Cotterill, D.J. Chicago, Institute of Food Technologists. Journal of food science. July 1981. v. 46 (4). p. 981-983, 990. ill. 14 ref. (NAL Call No.: 389.8 F7322).

3118

Estimation of chicken microbial load using the growth curve parameters of chicken microflora.

POSCAL. Ibarra, J.J. Yokoya, F. Champaign, Ill. : Poultry Science Association. Poultry science. Jan 1986. v. 65 (1). p. 58-62. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3119

Federal regulation of meat and poultry products--increased consumer protection and efficiencies needed report to the Congress /by the Comptroller General of the United States.

United States.~General Accounting Office. Washington, D.C. : United States General Accounting Office, 1983. Cover title.~ "May 4, 1983."~ "GAO/RCED-83-68."~ "B-209696"--Prel. p. vi, 42 p. ; 28 cm. (NAL Call No.: DNAL TS1975.U63).

3120

Investigation of possible anitvitamin B-6 properties in irradiation sterilized chicken / Evelyn L. McGown ... (et al.). -.
 McGown, Evelyn L. San Francisco, Calif. Letterman Army Institute of Research 1981. Cover title ~"June 1981. ~"ERRC-ARS 78. ~Controlling organization, U.S. Army Medical Research and Development Command. xiii, 66 p. : ill. ; 28 cm. --. Bibliography: p. 18-19. (NAL Call No.: TX556.P9I58).

3121

Investigation of possible antithiamin properties in irradiation sterilized chicken / Evelyn L. McGown, Carolyn M. Lewis, Paul P. Waring. -.
 McGown, Evelyn L. Lewis, Carolyn M.; Waring, Paul P. San Francisco, Calif. Letterman Army Institute of Research 1979. Cover title ~"August 1979. ~"ERRC-ARS 77. ~Controlling organization, U.S. Army Medical Research and Development Command. vii, 47 p. : ill. ; 27 cm. --. Bibliography: p. 9. (NAL Call No.: TX556.P9M38).

3122

Irradiation sterilized chicken : a feeding study in rats / submitted to United States Department of Agriculture, Eastern Regional Research Center by Ralston Purina Company as part of contract no. 53-3K06-1-29. -.
 St. Louis, Mo. The Company (1983). Study issued in July 1982, is amended by pages dated June 10, 1983 ~Spine title: Irradiation sterilized chicken meat: a feeding study in rats. vi, 185 p. : ill. ; 30 cm. Includes bibliographies. (NAL Call No.: TX556.P9I76).

3123

Irradiation sterilized chicken submitted to United States Department of Agriculture, Eastern Regional Research Center ; by Ralston Purina Company as part of contract no. 53-3K06-1-29 ; (Key personnel Danny C. Ronning ... (et al.). -.
 Ronning, Danny C. & A feeding study in rats; (microform). St. Louis, Mo. (Checkerboard Square, St. Louis, Mo. 63188) The Company 1982. "The final report on a partially completed feeding study in Sprague-Dawley rats which was designed to provide data on chronic toxicity, oncogenicity, and reproductive toxicity of chicken meat treated through four different preservation techniques..." ~"July 1982" ~"Performing organization report ERRC-ARS 64" ~"Project no. 1402-20820-029". vi, 138 p. : ill. Bibliography: p. 70. (NAL Call No.: Fiche 162).

3124

Irradiation sterilized chicken meat : a chronic toxicity and reproductive performance study in beagle dogs : draft final report / submitted to U.S. Department of Agriculture, Eastern Regional Research Center by Ralston Purina Company as partial fulfillment to the requirements of contract no. 53-3K06-1-29. -.
 St. Louis, Mo. The Company 1983. "Initial Submission April 1982.". 9 v. : ill. ; 30 cm. Includes bibliographies. (NAL Call No.: TX556.P9I77 1983).

3125

Irradiation sterilized chicken meat submitted to U.S. Department of Agriculture, Eastern Regional Research Center by Ralston Purina Company as partial fulfillment to the requirements of Contract no. 53-3K06-1-29 ; (Contributors, Danny C. Ronning ... (et al.)). -.
 Ronning, Danny C. & A chronic toxicity and reproductive performance study in beagle dogs; (microform).; Animal feeding study for irradiation sterilized chicken; (microform). St. Louis, Mo. The Company 1983. Contract no. DAMD 17-76-C-6047; USDA 53-3K06-1-29. Project no. 1402-20820-029; Performing organization report no. ERRC-ARS-55-63 ~"Consists of 9 volumes. Vol. 1 contains the text and vol. 2-9 the experimental results. Reference should be made to the study protocol for experimental design: Animal feeding study protocol for irradiation sterilized test foods, submitted to FDA March 1984. ~Project, entitled "Animal feeding study for irradiation sterilized chicken", sponsored by the Eastern Regional Research Center, ARS, USDA ~Initial submission April 1982. 9 v. : ill. Bibliography: p. A90-A95 (vol. 1). (NAL Call No.: Fiche 152 1983).

3126

Marinating broiler parts: the use of a viscous type marinade (Chicken product safety).
 Post, R.C. PDSCA. Heath, J.L. Champaign : Poultry Science Association. Poultry science. June 1983. v. 62 (6). p. 977-984. ill. Includes references. (NAL Call No.: 47.8 AM33P).

3127

Methods of preservation of poultry products.
 Cunningham, F.E. Orlando : Academic Press, 1987. Abstract: Methods of preservation of poultry meat products are reviewed which are reported as reducing microbial load and prolonging shelf life. The following methods are used to prolong shelflife: antibiotics, sanitizers, food acids, controlled atmosphere, salts, disinfectants, coatings, heat treatment, polyphosphates, and ethanol. The Microbiology of poultry meat products / edited by F.E. Cunningham, N.A. Cox. Literature review. p. 275-292. charts. Includes 83 references. (NAL

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Call No.: DNAL QR117.M5).

3128

Microbiological profile of chicken patty products containing broiler giblets.

Cox, N.A.POSCA. Bailey, J.S.; Lyon, C.E.; Thomson, J.E.; Hudspeth, J.P. Champaign : Poultry Science Association. Poultry science. June 1983. v. 62 (6). p. 960-964. Includes references. (NAL Call No.: 47.8 AM33P).

3129

Mouse teratology study : final report / submitted to Department of the Army, U.S. Army Medical Research and Development Command ; by Raltech Scientific Services. -.

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3130

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(FEED CONTAMINATION TOXICOLOGY)

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POSCAL. Giambrone, J.J. Diener, U.L.; Davis, N.D.; Panangala, V.S.; Hoerr, F.J. Champaign, Ill. : Poultry Science Association. Poultry science. May 1985. v. 64 (5). p. 852-858. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Effects of zearalenone (F2) on estrous activity and reproduction in gilts (Swine, feed contamination, mycotoxins).

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FAATDF. Prelusky, D.B. Veira, D.M.; Trenholm, H.L.; Hartin, K.E. Orlando, Fla. : Academic Press. Fundamental and applied toxicology. Feb 1986. v. 6 (2). p. 356-363. Includes references. (NAL Call No.: DNAL RA1190.F8).

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Experimental induction of chronic aflatoxicosis in chickens by purified aflatoxin B1 and its reversal by activated charcoal, phenobarbital, and reduced glutathione.

Dalvi, R.R. McGowan, C. Champaign : Poultry Science Association. Poultry science. Mar 1984. v. 63 (3). p. 485-491. Includes references. (NAL Call No.: 47.8 AM33P).

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Extraction procedure for isolation of photosensitizing agent from fungus (Pithomyces charatarum) growing on kleingrass (Sporidesmin, mycotoxicosis of facial eczema observed in sheep and cattle).

Halder, C.A. TX. Hejtmancik, E.; Camp, B.J.; Bridges, C.H. College Station, Tex., The Station. PR - Texas Agricultural Experiment Station. Aug 1980. Aug 1980. (3693/3718). p. 23-24. 5 ref. (NAL Call No.: 100 T31P).

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Factors affecting storage stability of vitamin A, riboflavin, and niacin in a broiler diet premix.

POSCAL. Zhuge, Q. Klopfenstein, C.F. Champaign, Ill. : Poultry Science Association. Poultry science. May 1986. v. 65 (5). p. 987-994. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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POSCAL. Jones, F.T. Hamilton, P.B. Champaign, Ill. : Poultry Science Association. Poultry science. Aug 1986. v. 65 (8). p. 1522-1525. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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POSCAL. Tabib, Z. Hamilton, P.B. Champaign, Ill. : Poultry Science Association. Poultry science. Jan 1988. v. 67 (1). p. 58-63. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Yen, C.C.C. Hamilton, P.B. Champaign, Ill., Poultry Science Association. Poultry science. Feb 1982. v. 61 (2). p. 255-257. Includes 12 ref. (NAL Call No.: 47.8 AM33P).

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Stubblefield, R.D. AUJRA. Pier, A.C.; Richard, J.L.; Shotwell, O.L. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Sept 1983. v. 44 (9). p. 1750-1752. Includes references. (NAL Call No.: 41.8 AM3A).

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POSCAL. Burditt, S.J. Hagler, W.M. Jr.; Hamilton, P.B. Champaign, Ill. : Poultry Science Association. Poultry science. Nov 1984. v. 63 (11). p. 2172-2174. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Reynnells, R.D. Mount Morris, Ill., Watt Publishing Co. Poultry digest. Mar 1982. v. 41 (481). p. 144, 146. (NAL Call No.: 47.8 N219).

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Barto, P.B. Bush, L.J.; Adams, G.D. Champaign, Ill., American Dairy Science Association. Journal of dairy science. Feb 1982. v. 65 (2). p. 271-274. Includes 8 ref. (NAL Call No.: 44.8 J822).

3270

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Trenholm, H.L. Hamilton, R.M.G.; Friend, D.W.; Thompson, B.K.; Hartin, K.E. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Sept 1, 1984. v. 185 (5). p. 527-531. ill. Includes 27 references. (NAL Call No.: 41.8 AM3).

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Feedlot performance and metabolism parameters of lambs fed vomitoxin-contaminated hard red winter wheat.

Oltjen, R.R. Wallace, M.H.; Doupnik, B. Jr.; Klopfenstein, T.J.; Varel, V.H. Beltsville, Md. : The Service. ARS - United States Department of Agriculture, Agricultural Research Service. Dec 1984. (20). p. 46-47. (NAL Call No.: DNAL aS21.R44A7).

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3425

Effects of dietary nitrogen level and ileal antibiotic administration on digestion and passage rate in beef heifers. II. High-forage diets.

JANSAG. Goetsch, A.L. Owens, F.N. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Mar 1986. v. 62 (3). p. 844-856. Includes references. (NAL Call No.: DNAL 49 J82).

3426

Effects of dietary nitrogen level and ileal antibiotic administration on digestion and passage rates in beef heifers. I. High-concentrate diets.

JANSAG. Goetsch, A.L. Owens, F.N. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Mar 1986. v. 62 (3). p. 830-843. Includes references. (NAL Call No.: DNAL 49 J82).

3427

Effects of feeding wheat contaminated with wild radish (*Raphanus raphanistrum*) to growing pigs.

JANSAG. Hale, O.M. Utley, P.R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Nov 1985. v. 61 (5). p. 1172-1177. Includes references. (NAL Call No.: DNAL 49 J82).

3428

Effects of sorbic acid feed fungistat on the intestinal microflora of floor-reared broiler chickens.

POSCAL. Sofos, J.N. Fagerberg, D.J.; Quarles, C.L. Champaign, Ill. : Poultry Science Association. Poultry science. May 1985. v. 64 (5). p. 832-840. ill. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3429

Effects of tylosin feeding on the antibiotic resistance of selected gram-positive bacteria in pigs.

Christie, P.J. AJVRA. Davidson, J.N.; Novick, R.P.; Dunny, G.M. Schaumburg : American Veterinary Medical Association. American journal of veterinary research. Jan 1983. v. 44 (1). p. 126-128. Includes references. (NAL Call No.: 41.8 AM3A).

3430

Efficacy and nontarget effects of Larvadex as a feed additive for controlling house flies in caged-layer poultry manure (*Musca domestica*, mites, *Carcinops*).

Axtell, R.C. PDSA. Edwards, T.D. Champaign : Poultry Science Association. Poultry science. Dec 1983. v. 62 (12). p. 2371-2377. Includes references. (NAL Call No.: 47.8 AM33P).

3431

Efficacy of nosiheptide as a growth promotant for growing-finishing swine--a cooperative study.

JANSAG. Cromwell, G.L. Stahly, T.S.; Speer, V.C.; O'Kelly, R. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Nov 1984. v. 59 (5). p. 1125-1128. Includes references. (NAL Call No.: DNAL 49 J82).

3432

Factors influencing antifungal activity of gentian violet in poultry feed and ingredients.

PDSAL. Tabib, Z. Hamilton, P.B. Champaign, Ill. : Poultry Science Association. Poultry science. Jan 1988. v. 67 (1). p. 58-63. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

3433

Feed additive studies with newly weaned pigs: efficacy of supplemental copper, antibiotics and organic acids.

JANSAG. Edmonds, M.S. Izquierdo, O.A.; Baker, D.H. Champaign, Ill. : American Society of Animal Science. Journal of animal science. Feb 1985. v. 60 (2). p. 462-469. Includes references. (NAL Call No.: DNAL 49 J82).

3434

Food waste recycling through swine.

COMPA. Price, A.T. Derr, D.A.; Suhr, J.L.; Higgins, A.J. Emmaus, Pa. : J.G. Press. BioCycle. Mar 1985. v. 26 (2). p. 34-37. ill. Includes 8 references. (NAL Call No.: DNAL 57.8 C734).

3435

Gas chromatographic determination of avilamycin total residues in pig tissues, fat, blood, feces, and urine.

JANCA2. Formica, G. Giannone, C. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. Sept/Oct 1986. v. 69 (5). p. 763-766. (NAL Call No.: DNAL 381 AS7).

3436

High tolerance of broilers to vomitoxin from corn infected with *Fusarium graminearum* (chickens).

Moran, E.T. Jr. Hunter, B.; Ferket, P.; Young, L.G.; McGinn, L.G. Champaign, Ill. : Poultry Science Association. Poultry science. Sept 1982. v. 61 (9). p. 1828-1831. 13 ref. (NAL Call No.: 47.8 AM33P).

3437

Improved method for gas-liquid chromatographic determination of clopidol (feed additive used to control coccidiosis) in chicken tissues.

Suzuki, E. Matsuda, M.; Momose, A.; Namekata, M. Arlington, Va., The Association. Journal of the Association of Official Analytical Chemists. Nov 1980. v. 63 (6). p. 1211-1214. 111. 4 ref. (NAL Call No.: 381 AS7).

3438

The individual and combined use of antibiotic feed additives in lamb finishing rations.

Lewis, R.M. Zometa, C.A.; Calhoun, M.C.; Shelton, M. College Station, Tex. : Texas Agricultural Experiment Station. Sheep and goat, wool and mohair. 1986. p. 41-43. Includes references. (NAL Call No.: DNAL SF375.4.T4S43).

3439

Lasalocid and monensin effects on intake, gain, and efficiency of growing calves (Polyether antibiotics with influence ruminal metabolism, feed efficiency, supplements).

Boling, J.A. Smith, S.I.; Reffett, J.K.; Bradley, N.W.; Gay, N. Lexington, Ky., The Station. Progress report - Kentucky Agricultural Experiment Station. July 1982. July 1982. (265). p. 16. (NAL Call No.: 100 K41PR).

3440

Lipid coating as a mode of protecting free methionine from ruminal degradation (Lambs, plasma methionine, nitrogen retention).

Smith, S.I. JANSAG. Boling, J.A. Champaign : American Society of Animal Science. Journal of animal science. Jan 1984. v. 58 (1). p. 187-193. Includes references. (NAL Call No.: 49 J82).

3441

Management to prevent drug residue problems in pork (Swine, nutrition).

Cromwell, G.L. Biehl, L.G.; Wilcox, R.A. West Lafayette, Ind. : The Service, 1978/1984. Pork industry handbook / Purdue University, Cooperative Extension Service. PIH-86, Mar

(FEED COMPOSITION)

1983. 6 p. ill. (NAL Call No.: SF395.P62).

3442

Milk replacers for the neonatal calf.

Hand, M.S. Hunt, E.; Phillips, R.W.
Philadelphia, Pa. : W.B. Saunders Company. The
Veterinary clinic of North America : food
animal practice. In the series analytic: Calf
diarrhea / edited by Elaine Hunt.~ Literature
review. Nov 1985. v. 1 (3). p. 589-608.
Includes references. (NAL Call No.: DNAL
SF601.V535).

3443

Multiple antibiotic resistance in fecal, cecal and colonic coliforms from pigs fed therapeutic and subtherapeutic concentrations of chlortetracycline.

Dawson, K.A. Langlois, B.E.; Stahly, T.S.;
Cromwell, G.L. Champaign : American Society of
Animal Science. Journal of animal science. Nov
1983. v. 57 (5). p. 1225-1234. ill. Includes
references. (NAL Call No.: 49 J82).

3444

New study adds to antibiotic debate.

SCIEA. Sun, M. Washington, D.C. : American
Association for the Advancement of Science.
Science. Nov 16, 1984. v. 226 (4676). p. 818.
(NAL Call No.: DNAL 470 SCI2).

3445

Nutritional supplements for animals: antibiotics.

Shor, A.L. Boca Raton, Fla. : CRC Press, c1983.
CRC handbook of nutritional supplements /
editor, Miloslav Rechcigl, Jr. p. 121-128.
Includes 8 references. (NAL Call No.: DNAL
TX553.A3C73).

3446

Renal and biochemical changes produced in broilers by high-protein, high-calcium, urea-containing, and vitamin-A-deficient diets (Chickens, nephritis).

Chandra, M. Singh, B.; Soni, G.L.; Ahuja, S.P.
Kennett Square : American Association of Avian
Pathologists. Avian diseases. Jan/Mar 1984. v.
28 (1). p. 1-11. ill. Includes references. (NAL
Call No.: 41.8 AV5).

3447

Salmonella and other Enterobacteriaceae found in commercial poultry feed.

Cox, N.A. POSCA. Bailey, J.S.; Thomson, J.E.;
Juven, B.J. Champaign : Poultry Science
Association. Poultry science. Nov 1983. v. 62
(11). p. 2169-2175. Includes references. (NAL
Call No.: 47.8 AM33P).

3448

Subchronic toxicity of monensin in broiler chickens (Feed intake).

Wagner, D.D. VTPHA. Furrow, R.D.; Bradley, B.D.
Washington : American College of Veterinary
Pathologists. Veterinary pathology. May 1983.
v. 20 (3). p. 353-359. ill. Includes
references. (NAL Call No.: 41.8 P27).

3449

Use of dietary fat to reduce dust, aerial ammonia and bacterial colony forming particle concentrations in swine confinement buildings.

TAAEA. Chiba, L.I. Peo, E.R. Jr.; Lewis, A.J.
St. Joseph, Mich. : The Society. Transactions
of the ASAE - American Society of Agricultural
Engineers. Mar/Apr 1987. v. 30 (2). p. 464-468.
Includes references. (NAL Call No.: DNAL 290.9
AM32T).

3450

Use of ducks as a model to study the effect of antibiotics in feed on the fecal shedding of Salmonella.

Latour, P.B. Barnum, D.A. Schaumburg, Ill.,
American Veterinary Medical Association.
American journal of veterinary research. Dec
1981. v. 42 (12). p. 2105-2108. 23 ref. (NAL
Call No.: 41.8 AM3A).

AGRICULTURAL PRODUCTS - ANIMAL

3451

Scouring protein contaminants from raw wool.
TRJ049. Christoe, J.R. Princeton, N.J. :
Textile Research Institute. Textile research
journal. Nov 1984. v. 54 (11). p. 713-721.
Includes 22 references. (NAL Call No.: DNAL
304.8 T293).

HUMAN NUTRITION

3452

Contamination of the food chain by polychlorinated biphenyls from a broken transformer.

Drotman, D. Peter. Baxter, Peter J.; Liddle, John A.; Brokopp, Charles D.; Skinner, Martin D. Washington : American Public Health Association. Extract: In 1979, a widespread distribution of chicken and egg food products and grease contaminated with polychlorinated biphenyl (PCBs) occurred across the US to as far away as Canada and Japan. The contamination was traced to an accidental leakage of PCBs from a transformer stored in a hog slaughtering plant in Montana. Breast milk analyses showed the PCB absorption had occurred among egg consumers. The episode illustrates the need for heightened vigilance of the fate of PCBs still in use. (author). American journal of public health. March 1983. v. 73 (3). p. 290-292. ill. Includes 12 references. (NAL Call No.: 449.9 AM3J).

3453

Dark side of diet change is rise in food poisoning.

Washington, D.C. : Community Nutrition Institute. Abstract: A report presents US consumer consumption trends between 1960-1987 for poultry, beef, and pork, indicating a continual increase in poultry consumption due both to increased consumer interests in reducing animal fat and cholesterol intake and to increased beef and pork prices, and notes that the increase in poultry consumption may represent a greater health risk from food poisoning. It is argued that US consumers today are 60 times more likely to get food poisoning from consuming poultry than they are to obtain a potential health benefit from eating less red meat. The economic health cost of this change also is discussed.(wz). Nutrition week. Apr 30, 1987. v. 17 (18). p. 4-6. ill. (NAL Call No.: DNAL TX341.C6).

FOOD SERVICE MANAGEMENT

3454

Meat, Poultry, and Egg Products Inspection Amendments of 1983, exempt restaurant central kitchens from federal inspection requirements, and USDA's five-point program of inspection in livestock and poultry slaughter plantshearing before the Subcommittee on Livestock, Dairy, and Poultry of the Committee on Agriculture, House of Representatives, Ninety-eighth Congress, second session, on H.R. 2691 and H.R. 5223, May 17, 1984. --.

United States.~Congress.~House.~Committee on Agriculture.~Subcommittee on Livestock, Dairy, and Poultry. Washington, D.C. : U.S. G.P.O., 1984 i.e. 1985 . Distributed to some depository libraries in microfiche.~ "Serial no. 97-76.". ii, 150 p. ; 24 cm. (NAL Call No.: DNAL KF27.A366 1984a).

3455

Microwave vs. conventional oven cooking of chicken: relationship of internal temperature to surface contamination by *Salmonella typhimurium*.

JADAA. Lindsay, R.E. Krissinger, W.A.; Fields, B.F. Chicago, Ill. : The Association. Abstract: A study evaluated whether internal temperature was a satisfactory guide for controlling the safety of chicken prepared in a microwave oven. The results indicated that internal temperature would not be a satisfactory guide for ensuring safety since: (a) 8 of 9 cooked samples produced some type of positive culture; (b) over 50 per cent of the samples produced viable *Salmonella*; and (c) the extent of bacterial growth from all microwave cooked samples was greater than that of samples cooked in a conventional oven.(wz). Journal of the American Dietetic Association. Mar 1986. v. 86 (3). p. 373-374. charts. Includes 20 references. (NAL Call No.: DNAL FNC 389.8 AM34).

3456

Salmonella scare.

Bain, L. New York, N.Y. : Restaurant Business Magazine. Abstract: A brief historical report notes the growth in foodborne illnesses to 80 million cases/year and highlights the increased in prevalence in salmonella poisoning in New York State by 50% since 1980, with a very strong connection made with salmonella poisoning from poultry. The report also notes that at least 30% of all raw poultry is infected with salmonella at any given time. The human hazards associated with salmonella poisoning, the possible causes of such contamination, and actions to prevent it are addressed.(wz). Restaurant business. May 20, 1987. v. 86 (8). p. 102. (NAL Call No.: DNAL 389.2538 F82).

PHYSIOLOGY OF HUMAN NUTRITION

3457

Breast milk.

Lockhart, Jean D. Minneapolis, General Mills.
Abstract: Some advantages of breast feeding as summarized by the American Academy of Pediatrics are better nutrition, extra immunologic factors and miscellaneous benefits including bonding. Some areas of comparison between human milk, formulas, and cow's milk are highlighted including fat, protein, and iron content, breast feeding and future obesity, and anti-allergic benefits. Drugs and environmental pollutants found in breast milk are a risk factor. The development of standards for operating human milk banks in hospitals is necessary. Physiologic aspects of the breast and nursing are addressed. Some recommendations for fostering breast feeding are given.
Contemporary nutrition General Mills, Inc. Jan 1979. v. 4 (1). p. 1-2. 11 ref. (NAL Call No.: TX341.C62 F&N).

3458

Indices of protein metabolism in term infants fed human milk, whey-predominant formula, or cow's milk formula.

PEDIAU. Janas, Lynn Marie. Picciano, Mary Frances; Hatch, Terry F. Elk Grove Village, Ill. : American Academy of Pediatrics. Extract: Relationships between intakes of amino acids and total nitrogen, and blood indices of protein utilization were studied in 37 term infants fed either human milk, whey-predominant formula, or cow's milk formula as the sole nutritional source for 8 weeks. Biochemical analyses of two-hour fasting blood samples, and intakes calculated using three-day dietary records and direct analyses of milk samples were used to evaluate these relationships. Intakes of total nitrogen were positively correlated with plasma valine, leucine, isoleucine, phenylalanine, and serum urea nitrogen concentrations. Intakes of the four amino acids whose plasma concentrations were positively correlated with total nitrogen intakes plus additional amino acids were correlated with their respective plasma concentrations. These relationships have been previously describes in term infants. Compared with values in infants fed human milk, plasma concentrations of valine, phenylalanine, methionine, and serum urea nitrogen were elevated with whey-predominant formula and cow's milk formula feeding. Values for four additional amino acids were elevated with whey-predominant formula feeding. Data indicate that altering the whey-to-casein ratio and, thus, the amino acid pattern of formulas will not achieve the desired blood indices characteristic of human milk feeding without a reduction in the total nitrogen content of formulas. (Author). Pediatrics. April 1985. v. 75 (4). p. 775-784. ill., charts. Includes 36 references. (NAL Call No.: DNAL FNC RJ1.P42).

DIET AND DIET RELATED DISEASES

3459

Can the food you eat cause cancer.

Leklem, Jim. Mountain View, Calif., World Publications 365 May 1980. v. 15 (5). Abstract: Evidence is accumulating which indicates that a poor diet can increase susceptibility to cancer though it may not initiate it. A healthy immune system supported by adequate dietary intake of protein, vitamin B6, folic acid and pantothenic acid may provide protection against cells growing abnormally. Dietary factors most often associated with higher incidence of cancer of the colon are high fat and low fiber. High fat in the diet stimulates production of bile acids in the intestine, which can combine with certain chemicals to produce cancer in animals and breast cancer, possibly through hormone stimulation. The nitrites in processed meats can combine with amines to produce the carcinogenic nitrosamines, also found in some beers. Alcohol ingestion seems to be related to cancer of the esophagus, larynx and liver. Mutagens are produced in fried hamburgers, canned chicken and beef broth; charcoal broiling seems to produce benzapyrene. Additives are a very controversial subject. Studies have shown that vitamin C treatment reduces the formation of nitrosamines and mutagens, and laetrile is being used to treat cancer. Runner's world. p. 55-57. ill. (NAL Call No.: GV1061.5.A1R8 F&N).

3480

The effect of ethanol and wine on the plasma histamine level of chickens and man.

Lowenberg, D.W. Ough, C.S.; Lepkovsky, S.; Furuta, F.F. Davis, Calif., American Society of Enologists. American journal of enology and viticulture. 1981. v. 32 (2). p. 128-131. ill. 16 ref. (NAL Call No.: 390.9 AM33).

3461

The Enigma of copper sulfate in animal nutrition.

NUREA. Washington, D.C. : Nutrition Foundation. Abstract: Recent evidence indicates that feed additive levels of Cu and antibiotics produce additive responses in the rate and efficiency of weight gain in young pigs with no antagonistic effects. The role of Cu in the nutrition of swine and poultry, however, is less clear. Various aspects of Cu metabolism (e.g.: binding to thioamino acids; Cu chelation) also are discussed. (wz). Nutrition reviews. Aug. 1984. v. 42 (8). p. 296-297. Includes 17 references. (NAL Call No.: DNAL FNC 389.8 N953).

3462

Morphine in cow and human milk: could dietary morphine constitute a ligand for specific morphine (Mu) receptors.

Hazum, E. Sabatka, J.J.; Chang, K.J.; Brent, D.A.; Findlay, J.W.A.; Cuatrecasas, P. Washington, D.C., American Association for the Advancement of Science. Science. Aug 28, 1981. v. 213 (4511). p. 1010-1012. ill. 25 ref. (NAL Call No.: 470 SCI2).

3463

The unjungle: the meat we eat, safe and nutritious.

Paul, D.L. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 88-90. ill. (NAL Call No.: DNAL SF601.J62).

HOME ECONOMICS

3464

It's a long way from Farmer Jones to Frank Perdue.

New York, The Union. Abstract: A Consumer Reports study evaluated 2 supermarket brands, five regional brands, one national brand, fresh-killed and barnyard chickens. Store-bought chicken was found to be about as good as farm chicken or fresh-killed. Name brands offered no great difference in quality therefore chicken can be safely selected on the basis of its price per pound. Topics discussed include modern mass-production techniques, taste parameters, nutrition, costs, cleanliness, and storage. An insert describes additives in chicken feed and antibiotics in chickens. Consumer reports Consumers Union of United States. May 1978. v. 43 (5). p. 255-258.

poultry are identified. Care of canned goods, how to protect foods when the freezer or refrigerator fails, and reporting food related illnesses are discussed. An index is included along with information on where to get more information. (kbc). Cover title ~"July 1984. ~Includes index. 32 p. : col. ill. ; 22 cm. --. Bibliography: p. 31. (NAL Call No.: TX601.P37 F&N C-2703).

3468

Scouring protein contaminants from raw wool. TRJ0A9. Christoe, J.R. Princeton, N.J. : Textile Research Institute. Textile research journal. Nov 1984. v. 54 (11). p. 713-721. Includes 22 references. (NAL Call No.: DNAL 304.8 T293).

3465

Meat and poultry hotline: Q & A--on summertime food safety.

Parmley, M.A. Washington, D.C. : U.S. Department of Agriculture. Abstract: Questions and answers on summertime food safety focus on food poisoning and the hazards of outdoor picnics and barbeques involving meat and poultry products. In addition, tips are given for other aspects of outdoor eating and food service, including ways to keep food cold longer and how to keep hot foods safely for several hours. (lsp). Food news for consumers. Spring 1985. v. 2 (2). p. 11-13. ill. (NAL Call No.: DNAL aTX501.F66).

3466

Neurotoxicity of two organophosphorus ester flame retardants in hens.

Sprague, G.L. Sandvik, L.L.; Brookins-Hendricks, M.J.; Bickford, A.A. Washington, D.C., Hemisphere Publishing. Journal of toxicology and environmental health. Sept 1981. v. 8 (3). p. 507-518. ill. Includes ref. (NAL Call No.: RA565.A1J6).

3467

The safe food book : your kitchen guide / (writer, Mary Ann Parmley). -.

Parmley, Mary Ann. (Washington, D.C.) U.S. Dept. of Agriculture, Food Safety and Inspection Service 1984. Abstract: A guide to food safety explains safe methods of food preservation, storage, and preparation. A brief historical perspective is given. an explanation of food spoilage is provided. The 4 major food poisons, which are staphylococcus aureus (Staph), salmonella, Perfringens, and botulism, with particular emphasis on contaminated canned foods are all described. Suggestions are given on ways to keep kitchens and food safe. Advice on heating, refrigeration, and freezing is provided. Methods of ensuring the safety of microwave cooked foods are listed. Foods that require special care, such as ground meats and

HOME FOOD AND MEAL PREPARATION

3469

You must be joking--safe turkey shortcuts.

Fox, L. Washington, D.C. : U.S. Department of Agriculture. Abstract: Information is presented to help consumers in reducing risks of foodborne illness from turkeys. Specific guidelines are given on shopping, cooking, and serving tips, and for the safe storage of leftovers. A summary table highlighting these guidelines is included.(wz). Food news for consumers. 1987. v. 4 (4). p. 10-11. ill. (NAL Call No.: DNAL aTX501.F66).

POLLUTION

3470

Accumulation of chlorobiphenyls in chicken fat and liver after feeding Aroclor 1254 directly or fat from swine fed Aroclor 1254.

Hansen, L.G.JAFCA. Tuinstra, L.G.M.Th.; Kan, C.A.; Strik, J.J.T.W.A.; Koeman, J.H. Washington : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1983. v. 31 (2). p. 254-260. ill. Includes references. (NAL Call No.: 381 J8223).

3471

Acute lead poisoning with eosinophilic meningoencephalitis in calves on a farm receiving land application of sewage sludge.

JEPTD. Dorn, C.R. Tuomari, D.; Reddy, C.; Logan, T.J. Park Forest : Chem-Orbital. Journal of environmental pathology, toxicology, and oncology : official organ of the International Society for Environmental Toxicology and Cancer. Mar/Apr 1986. v. 6 (3/4). p. 305-313. ill. Includes references. (NAL Call No.: DNAL RB152.J6).

3472

Acute toxicity, bioconcentration, and persistence of AC 222,705, benthocarb, chlorpyrifos, fenvalerate, methyl parathion, and permethrin in the estuarine environment (Eastern oyster (*Crassostrea virginica*, estuarine mysid (*Mysidopsis bahia*), sheepshead minnow (*Cyprinodon variegatus*)).

Schimmel, S.C.JAFCA. Garnas, R.L.; Patrick, J.M. Jr.; Moore, J.C. Washington : American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1983. v. 31 (1). p. 104-113. ill. 2 p. ref. (NAL Call No.: 381 J8223).

3473

The acute toxicity of 1-methylaminoanthraquinone in dogs and rabbits and its metabolism in sheep.

Martin, B.W.AECTCV. Ivie, G.W.; Bailey, E.M. New York : Springer-Verlag. Archives of environmental contamination and toxicology. July 1983. v. 12 (4). p. 499-507. ill. Includes references. (NAL Call No.: TD172.A7).

3474

Adrenocortical function and hepatic naphthalene metabolism in mallard ducks (*Anas platyrhynchos*) consuming petroleum distillates (Crude oil and distillation fractions).

Gorsline, J. Holmes, W.N. New York, Academic Press. Environmental research. June 1982. v. 28 (1). p. 139-146. Includes 2 p. ref. (NAL Call No.: RA565.A1E5).

3475

Air pollutants and the health and performance of swine.

Curtis, S.E. Urbana, Ill., The Service. Veterinary professional topics. Swine - Illinois University, Cooperative Extension Service. 1981. v. 7 (4). p. 3-5. (NAL Call No.: SF971.V4).

3476

Airway cell changes in tracheal lavage of sheep after ozone exposure (Air pollution).

Sielczak, M.W.JTEHD. Denas, S.M.; Abraham, W.M. Washington, D.C. : Hemisphere Publishing. Journal of toxicology and environmental health. Apr/June 1983. v. 11 (4/6). p. 545-553. ill. Includes references. (NAL Call No.: RA565.A1J6).

3477

Airway effects of acid sulfates in conscious sheep (Pulmonary resistance).

Abraham, W.M. Kim, C.S.; Chapman, G.A.; King, M.M. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-8.6/1-83-8.6/12. Includes references. (NAL Call No.: TD881.A56).

3478

Amino acid composition and microbial contamination of *Spirulina maxima*, a blue-green alga, grown on the effluent of different fermented animal wastes (Included swine, poultry and cattle manures, municipal sludge, swine blood slurry).

Wu, J.F. Pond, W.G. New York, Springer. Bulletin of environmental contamination and toxicology. Aug 1981. v. 27 (2). p. 151-159. 29 ref. (NAL Call No.: RA1270.P35A1).

3479

Animal viruses, coliphages, and bacteria in aerosols and wastewater at a spray irrigation site.

APMBA. Brenner, K.P. Scarpino, P.V.; Clark, C.S. Washington, D.C. : American Society for Microbiology. Abstract: Aerosol samples collected at the Muskegon County Wastewater Management System Number 1 spray irrigation site in Michigan by using the Army prototype XM2 Biological Sampler/Collector were examined for the presence of animal viruses, coliphages, and bacteria. Air samples, collected in Earle lactalbumen hydrolysate, and wastewater samples were filtered through a 0.45- and 1.2 micron membrane filter sandwich, pretreated with 10% beef extract (pH 7.0), and assayed for animal viruses by the plaque method on Buffalo green monkey kidney cells. Untreated air and wastewater samples were assayed for coliphages

by the soft agar overlay method with three *Escherichia coli* hosts (ATCC 13706, 15597, and 11303) and for bacteria by the heterotrophic plate count method. Filtered air samples were assayed for coliphages by the most-probable-number method with the same three hosts. Although no animal viruses were detected in the aerosol samples, coliphages and bacteria were recovered. *E. coli* ATCC 13706 coliphage were recovered more often and in greater numbers than either of the other two types of coliphages. Concentrations of animal viruses, coliphages, and bacteria detected in the raw influent decreased as the wastewater was aerated and stored in the lagoons. No animal viruses were detected in the wastewater at the pump station just before distribution to the spray irrigation rigs. The most-probable-number method was more sensitive and consistent than the overlay procedure in detecting low levels of coliphages in air samples. *Applied and Environmental microbiology*. Feb 1988. v. 54 (2). p. 409-415. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

3480

Application of short-term tests to safety testing of industrial chemicals (Drugs, food and food additives, and pesticides, air or water pollutants and chemical residues in crops or in tissue of meat, fish, or poultry).
Schreiner, C.A. ANYAA. New York : The Academy. *Annals of the New York Academy of Sciences*. 1983. v. 407. p. 367-373. Includes references. (NAL Call No.: 500 N484).

3481

Aspects of waste recycling as feedstuffs for poultry.
El Boushy, A.R. Minneapolis, Miller. *Feedstuffs*. Oct 13, 1980. Literature review. v. 52 (42). p. 16, 24, 28-32. 57 ref. (NAL Call No.: 286.81 F322).

3482

Biochemical and physiological sequelae to perinatal exposure to polybrominated biphenyls (fire retardants which were added accidentally to livestock and poultry feed): a multigeneration study.
McCormack, K.M. Lepper, L.F.; Wilson, D.M., Hook, J.B. New York, Academic Press. *Toxicology and applied pharmacology*. June 30, 1981. v. (2). p. 300-313. ill. Bibliography p. 310-313. (NAL Call No.: 391.8 T662).

3483

Broiler death rate used to determine underground disposal pit capacity (Waste management, poultry disposal methods, Arkansas).
Warnock, W.K. AKFRA. Tacker, P.L. Jr. Fayetteville : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1983. v. 32 (2). p. 6. ill. (NAL Call No.: 100 AR42F).

3484

Cadmium/zinc relationships in kidney cortex and metallothionein of horse and red deer: histopathological observations on horse kidneys.
ENVRA. Holterman, W.F.M.D. De Voogt, P.; Copius Peereboom-Stegeman, J.H.J. New York, N.Y. : Academic Press. *Environmental research*. Dec 1984. v. 35 (2). p. 466-481. ill. Includes references. (NAL Call No.: DNAL RA565.A1E5).

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Chemical characterization of a polar portion in the neutral fraction derived from airborne particulate extracts responsible for the embryotoxicity in the chicken embryo.
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JAVMA. Salman, M.D. Dargatz, D.A.; Kimberling, C.V.; Ellis, R.P. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. July 15, 1988. v. 193 (2). p. 195-204. Includes references. (NAL Call No.: DNAL 41.8 AM3).

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Poultry condemnation reporting system.

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DOCUMENTATION

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Powell, Stephen E. Holstein-Delgass, Elizabeth. West Lafayette, Ind. : Purdue University, Cooperative Extension Service and Animal Sciences Dept., 1985. Includes indexes. 247 p. ; 28 cm. (NAL Call No.: DNAL SF98.A5P6).

LIFE SCIENCES

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Psychrotrophic bacteria in foods: An update.

Kraft, A.A. Rey, C.R. Chicago, Institute of Food Technologists. Abstract: Only a few genera of gram-negative rods cause food spoilage at low temperatures. The effects of low temperatures on microbial populations in poultry and other foods depend on the bacteria's ability to survive cold shock. Freezing produces various changes with different microbial populations predominating at the two stages of freezing. It also selectively modifies the flora that develops after defrosting. A study illustrates the effects of freezing in changing the microbial flora and resulting problems in identification and classification of surviving organisms. Food technology. Jan 1979. v. 33 (1). p. 66-71. ill., charts. 38 ref.

HUMAN MEDICINE, HEALTH AND SAFETY

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Air conditioning and television as protective factors in arboviral encephalitis risk.

AJTHA. Gahlinger, P.M. Reeves, W.C.; Milby, M.M. Lawrence : Allen Press. The American journal of tropical medicine and hygiene. May 1986. v. 35 (3). p. 601-610. Includes references. (NAL Call No.: DNAL 448.8 AM326).

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Application of short-term tests to safety testing of industrial chemicals (Drugs, food and food additives, and pesticides, air or water pollutants and chemical residues in crops or in tissue of meat, fish, or poultry).

Schreiner, C.A. ANYAA. New York : The Academy. Annals of the New York Academy of Sciences. 1983. v. 407. p. 367-373. Includes references. (NAL Call No.: 500 N484).

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Economic impact of colonization control on foodborne disease.

FOTEA. Kvenberg, J.E. Archer, D.L. Chicago, Ill. : Institute of Food Technologists. Abstract: A technical review discusses the incidence of illness produced in the US caused by foodborne disease due to *Salmonella* spp., *Campylobacter* spp., and *Yersinia* in meats and poultry, and the implied associated economic impact. A brief review of recent studies concerning the incidence of foodborne disease associated with productivity losses is followed by separate discussions of specific incidences of foodborne disease attributed to *Salmonella*, *Campylobacter*, or *Yersinia*. It is argued that the exclusion of such pathogens from livestock by intentional colonization with competitive non-pathogens could greatly reduce human food-borne disease and its associated costs.(wz). Food technology. Based on paper presented at IFT Food Microbiology Div Prog, "Foodborne disease as influenced by colonization control of enteropathogens in poultry and livestock," at anl mtg of Inst of Food Tech, June 16-19, 1987, Las Vegas, NV. July 1987. v. 41 (7). p. 77-98 (not consecutive). Includes 32 references. (NAL Call No.: DNAL 389.8 F7398).

3598

Foodborne and waterborne disease in Canada - 1982 annual summary.

JFPRDR. Todd, E.C.D. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Data on foodborne disease in Canada in 1982 are compared with those for 1981. A total of 988 incidents comprising 791 outbreaks and 197 single cases, caused illnesses in 7,384 persons in 1982. These figures are greater than for 1981, and, in fact, the numbers of incidents and cases are the highest on record. *Salmonella*, *Staphylococcus aureus*, *Clostridium perfringens*

and *Bacillus cereus* caused most of the illnesses. The main *Salmonella* serovars were *S. typhimurium*, *S. meunster* and *S. infantis*. *Escherichia coli* O157:H7 hemorrhagic colitis was reported for the first time. Parasitic diseases were caused by *Trichinella spiralis* and *Giardia lamblia*. The same number of animal related incidents occurred in 1982 and 1981 involving paralytic shellfish poison, scombroid poison and insect infestation of food. There were also 72 incidents and 113 cases of chemical origin; extraneous matter, rancid compounds and cleaning substances were the most frequently implicated. Unusual chemical problems included ammonia from decomposition in tuna, strychnine in vitamin pills (murder), tartaric acid in gum, excess licorice in candy, calcium chloride in a popsicle, sodium acetate in potato chips and sodium hydroxide in pretzels. Some of these are discussed in more details under the narrative reports. There were 15 deaths from salmonellosis, hemorrhagic colitis (*E. coli* O157:H7 infection), *Clostridium perfringens* gastroenteritis and strychnine poisoning. About 30.7% of incidents and 40.1% of cases were associated with meat and poultry. Bakery products, marine foods and dairy foods were also important vehicles of foodborne disease. Mishandling of food took place mainly in foodservice establishments (38.1% of incidents, 75.7% of cases), homes (13.9% of incidents, 7.1% of cases) and food processing establishments (11.5% of incidents, 4.0% of cases). Chemicals, such as extraneous matter, sodium hydroxide and tin, were the agents associated with 51.8% of incidents caused by processors'. Journal of food protection. Jan 1988. v. 51 (1). p. 56-65. charts. Includes 24 references. (NAL Call No.: DNAL 44.8 J824).

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Hematological toxicology following embryonic exposure to aflatoxin-B1 (Mycotoxins, chick embryos).

Dietert, R.R. PSEBA. Bloom, S.E.; Qureshi, M.A.; Nanna, U.C. New York : Academic Press. Proceedings of the Society for Experimental Biology and Medicine. Sept 1983. v. 173 (4). p. 481-485. Includes references. (NAL Call No.: 442.9 S01).

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Incidence of *Streptococcus zooepidemicus* mastitis.

JFPRDR. Hinckley, L.S. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Sept 1985. v. 48 (9). p. 751-753. Includes 5 references. (NAL Call No.: DNAL 44.8 J824).

(HUMAN MEDICINE, HEALTH AND SAFETY)

3601

Metabolism and effects of organic compounds in animals.

VHTOD. Eisele, G.R. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Literature review. Oct 1985. v. 27 (5). p. 417-421. Includes 26 references. (NAL Call No.: DNAL SF601.A47).

3602

Organochlorine pesticide residues in chicken fat: a survey.

POSCAL. Kahunyo, J.M. Maitai, C.K.; Forxlie, A. Champaign, Ill. : Poultry Science Association. Poultry science. June 1986. v. 65 (6). p. 1084-1089. Includes references. (NAL Call No.: DNAL 47.8 AM33P).

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Playing chicken with food poisoning.

Vara, J. Charolette, Vt. : Camden House Publishing. Harrowsmith. May/June 1987. v. 2 (9). p. 123. ill. (NAL Call No.: DNAL S522.U5H37).

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A potpourri of pesticide poisonings in Alberta in 1987.

VHTOD. Smith, R.A. Lewis, D. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Apr 1988. v. 30 (2). p. 118-120. Includes references. (NAL Call No.: DNAL SF601.A47).

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Present and future food hygiene concerns.

Kampelmacher, E.H. Washington, D.C. : The Association of American Veterinary Medical Colleges. Journal of veterinary medical education. Paper presented at the meeting on "Safe Meat and Poultry from Farm to Table and the National Animal Disease Surveillance Program," July 18-19, 1984, New Orleans, Louisiana. 1985. v. 11 (3). p. 100-102. (NAL Call No.: DNAL SF601.J62).

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Radiation exposure during equine radiography.

JAVRA. Ackerman, N. Spencer, C.P.; Hager, D.A.; Poulos, P.W. Jr. Philadelphia, Pa. : J.B. Lippincott Company. Veterinary radiology. Sept/Oct 1988. v. 29 (5). p. 198-201. Includes references. (NAL Call No.: DNAL 41.9 AM37).

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Species differences in brain acetylcholinesterase and neuropathic target esterase response to monocrotophos.

JPFCD2. Siddiqui, M.K.J. Rahman, M.F.; Mahboob, M.; Anjum, F.; Mustafa, M. New York, N.Y. : Marcel Dekker. Journal of environmental science and health : Part B : Pesticides, food contaminants, and agricultural wastes. 1988. v. 23 (3). p. 291-299. Includes references. (NAL Call No.: DNAL TD172.J61).

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Surveillance of the flow of salmonella and campylobacter in a community /prepared for United States Dept. of Health & Human Services, Public Health Service, Food and Drug Administration, Bureau of Veterinary Medicine ; by Communicable Disease Control Section, Seattle-King County Department of Public Health. --.

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Transfer of firmly attached P-Salmonella typhimurium from raw poultry skin to other surfaces.

JFPRDR. Carson, M.O. Lillard, H.S.; Hamdy, M.K. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Apr 1987. v. 50 (4). p. 327-329. Includes references. (NAL Call No.: DNAL 44.8 J824).

CHEMISTRY

3610

Nitrate, nitrite, and nitroso compounds in foods.

FOTEA. Chicago, Ill. : Institute of Food Technologists. Abstract: A detailed scientific review summarizes and discusses current knowledge on the formation and occurrence of nitroso compounds in foods. Topics include: the history of meat curing with nitrate and its bacterial conversion to nitrite; regulation of the use of nitrate and nitrite as meat, poultry, and fish curing agents; the chemistry of curing; microbiological aspects of nitrite; nitrite substitutes; the chemical conversion of nitrite to nitrosamines and nitrosamides; the biological (carcinogenic) activity of nitroso compounds; major analytical surveys on the presence of nitroso compounds in foods; sources of nitrosamines in foods; nitrosamine formation during food processing; indirect addition of nitrosamines into foods from contact surfaces or from food additives; the formation of nitroso compounds in the human body from ingested foods containing nitrate and nitrite; and nonvolatile nitroso compounds in foods. The health implications of nitrite and nitroso compounds in foods also are discussed.(wz). Food technology. Apr 1987. v. 41 (4). p. 127-134, 136. ill., charts. Includes 71 references. (NAL Call No.: DNAL 389.8 F7398).

3611

Product quality and consumer preference as affected by alternative methods of handling and packaging chicken.

Gardner, Fred. Nichols, John. (College Station) Texas Agricultural Market Research and Development Center 1971. v, 60 p. : ill. Bibliography: p. 44. (NAL Call No.: TS1968.G3).

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